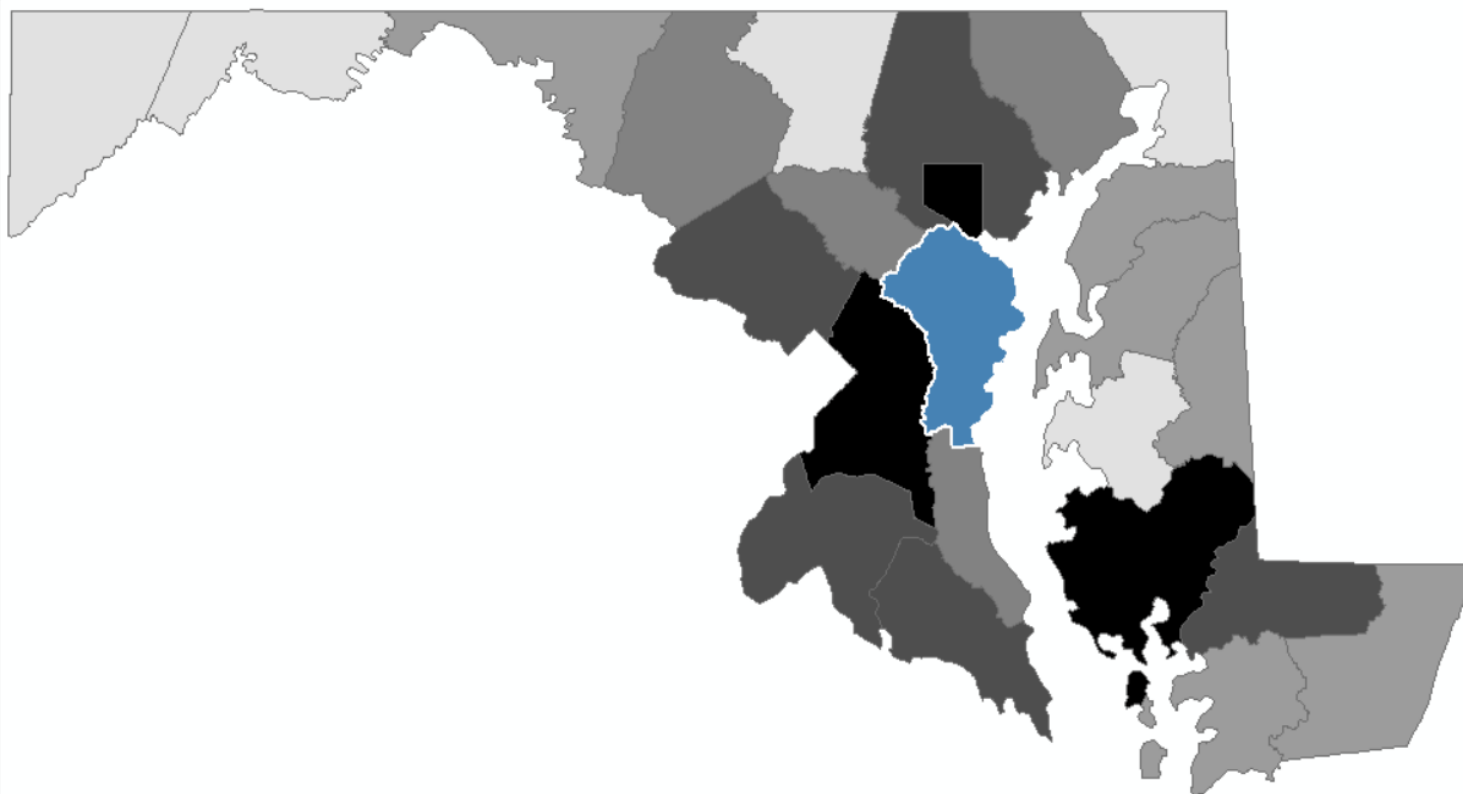


2016



Anne Arundel County HIV Annual Epidemiological Profile

Data reported through June 30, 2017

Center for HIV Surveillance, Epidemiology and Evaluation
Infectious Disease Prevention and Health Services Bureau
Prevention and Health Promotion Administration
Maryland Department of Health
<http://phpa.health.maryland.gov/OIDEOR/CHSE>
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Section I – Background Information

HIV/AIDS Reporting Requirements

The Maryland HIV/AIDS Reporting Act of 2007 went into effect on April 24, 2007. The law expanded HIV/AIDS reporting and required that HIV cases be reported by name. The following highlights the reporting requirements of Health-General Articles 18-201.1, 18-202.1, and 18-205 of the Annotated Code of Maryland, as specified in the Code of Maryland Regulations (COMAR) 10.18.02.

- Physicians are required to report patients in their care with diagnoses of HIV or AIDS immediately to the Local Health Department where the physician's office is located by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone.
- Physicians are required to report infants born to HIV positive mothers within 48 hours to the Maryland Department of Health by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone.
- Clinical and infection control practitioners in hospitals, nursing homes, hospice facilities, medical clinics in correctional facilities, inpatient psychiatric facilities, and inpatient drug rehabilitation facilities are required to report patients in the care of the institution with diagnoses of HIV or AIDS within 48 hours to the Local Health Department where the institution is located by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone. Facilities with large volumes are encouraged to contact the Maryland Department of Health to establish electronic reporting.
- Laboratory directors are required to report patients with laboratory results indicating HIV infection (e.g., positive confirmatory HIV diagnostic tests, all CD4 immunological tests, all HIV viral load tests, and all HIV genotype and phenotype tests) within 48 hours to the Local Health Department where the laboratory is located, or if out of state to the Maryland Department of Health, by mailing the State of Maryland HIV/CD4 Laboratory Reporting Form (DHMH 4492). Laboratories are encouraged to contact the Maryland Department of Health to establish electronic reporting.

Reporting forms and instructions, including mailing addresses and phones numbers, are available on our website: <https://phpa.health.maryland.gov/OIDEOR/CHSE/Pages/reporting-material.aspx>

For Assistance with HIV/AIDS Reporting

For assistance with reporting, including establishment of routine, electronic, or other alternate methods of reporting to the Maryland Department of Health, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health at 410-767-5227.

Limitations in the HIV/AIDS Data

This epidemiological profile only contains data for HIV and AIDS cases that have been diagnosed by a health care provider, were reported to the health department by name, and were residents of Maryland at the time of diagnosis or are current residents of Maryland as of 12/31/2016. Nationally, it has been estimated that 15.0% of people living with HIV infection are undiagnosed. In Maryland, it has been estimated that 15.3% of people living with HIV infection are undiagnosed. In addition, despite a massive effort during which over 17,000 HIV cases were reported after the Maryland HIV reporting law changed on April 24, 2007, not all diagnosed HIV cases previously reported by Maryland's code-based identifier were located and re-reported by name. Many of the re-reported HIV cases were identified by a recent diagnosis and not by their earliest diagnosis, resulting in an under-reporting of HIV diagnoses before 2001 and an over-reporting of HIV diagnoses from 2001 to 2008. Surveillance is the ongoing systematic collection, analysis, interpretation, and dissemination of case report data. Case report data are only available for cases receiving medical care, often only at facilities in Maryland, and only includes information that has been reported to the health department. Linkage to care data is based solely on laboratory data reported to the health department.

This epidemiological profile provides estimates of living Maryland diagnosed cases by current residence as of 12/31/2016. Residence at diagnosis is used exclusively to describe new HIV and AIDS diagnoses. Current residence data are restricted

to cases for which there is a case report form or laboratory test reported between 1/1/2009 and 6/30/2017. Restricting address data to recent years presents the most accurate data available and helps to account for cases that may have moved out of state whose data would no longer be reported in Maryland. However, current residence data excludes cases that may still be residents of Maryland but have not received any HIV care during the most recent eight and a half years. In addition, residence is dynamic and cases may have resided at multiple addresses that cannot all be represented in single time point estimates.

For additional information regarding current residence, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health at 410-767-5227.

Stages of a Case of HIV/AIDS

Untreated HIV disease progresses from HIV infection to AIDS to death. These are biological events that occur whether or not a person receives any medical care. For example, a person can be HIV infected but never have an HIV test and so they do not have an HIV diagnosis. A medical provider diagnoses that these biological events have occurred and records them as a medical event. The law requires medical providers to report these medical events to the Health Department, thereby creating a surveillance event.

Time Point	Biological Event	Medical Event	Surveillance Event
1	HIV Infection		
2		HIV Diagnosis	
3			HIV Report
4	AIDS Conditions		
5		AIDS Diagnosis	
6			AIDS Report
7	Death		
8		Death Diagnosis	
9			Death Report

A case of HIV/AIDS can only move through time in one direction, from HIV infection to death report [from time point 1 to time point 9], but may skip over individual stages. Events can occur simultaneously, but usually there is a time lag between them. The time lag between events can be measured in days, months, and years.

For example, the time between HIV infection [time point 1] and the test that diagnoses HIV [time point 2] may be several years, and it may then take several days for the laboratory and physician to report the diagnosis to the health department [time point 3]. In a second example, a person with diagnosed and reported HIV infection [time point 3] may die [time point 7] without developing AIDS, thereby skipping the three AIDS events (conditions, diagnosis, and report [time points 4, 5 and 6]). And in a third example, a person with undiagnosed HIV infection [time point 1] may become sick, enter the hospital, and die [time point 7] of what is later determined to be AIDS. In that situation, HIV diagnosis [time point 2], AIDS diagnosis [time point 5], and death diagnosis [time point 8] would all occur at the same time, and that would probably be many years after the initial HIV infection [time point 1].

Changes in Case Terminology

The terminology for HIV and AIDS cases was changed from earlier epidemiological profiles to be more precise, with Reported Diagnoses replacing Incidence and Living Cases replacing Prevalence. Incidence is a measure of the number of new events (such as HIV infections) in a population during a period of time. Prevalence is a measure of the number of people living with a condition (such as HIV) in a population at a certain time. Prevalence includes both newly and previously diagnosed cases as well as undiagnosed infections. For HIV, Incidence and Prevalence cannot be directly measured and must be estimated using statistical methods. The HIV surveillance system is able to provide the actual number of diagnoses and deaths that are reported in the population.

For this epidemiological profile, the reports received through a certain time (six months after December 31st of the specified year) are used to generate the number of diagnoses during the prior years. This lag time allows for delays in reporting and time to complete investigations. Instead of the previous one-year lag, this epidemiological profile utilizes a six-month lag,

and as a result, data on exposure category and deaths for the prior year are preliminary. For example, the Reported HIV Diagnoses for 2016 are the total of the reported HIV cases with or without an AIDS diagnosis, diagnosed with HIV during 1/1/2016-12/31/2016, as reported by name through 6/30/2017.

To calculate the number of Living Cases we count up all of the Reported Diagnoses from the beginning of the epidemic (all the new cases each year) and subtract all of the Reported Deaths. For example, the Total Living HIV Cases on 6/30/2017 are the total of the reported HIV Cases with or without an AIDS diagnosis and not reported to have died as of 12/31/2016 as reported by name through 6/30/2017.

Laboratory Data

CD4+ T-lymphocyte tests are measures of a person's immune system function. An HIV infected adult is considered to have AIDS if they have less than 200 CD4+ cells per microliter of blood or if the percent of T-Lymphocyte cells that are CD4+ cells is less than 14%. Viral load (VL) tests are measures of the amount of HIV in a person's body. The goal of HIV treatment is to have a very low number of copies of virus per milliliter of blood, below what the test can measure, which is called an undetectable level. Low levels of VL, such as less than 200 copies per milliliter of blood, are known as viral suppression. Treatment recommendations are that a person in HIV medical care should have their CD4 and VL levels measured regularly, at least once per year. We use the presence of these lab tests as an indicator that someone has been "linked to care" after diagnosis or is "retained in care."

Sources of Data

Information on HIV and AIDS diagnoses, including residence at diagnosis, age, race/ethnicity, sex at birth, current gender, country of birth, vital status, HIV exposure category, and CD4 and HIV viral load test results are from the Maryland Department of Health's Enhanced HIV/AIDS Reporting System (eHARS), June 30, 2017.

Population data by sex, age, and race/ethnicity are from the July 1, 2016 U.S. Census Estimates. Population data by country-of-birth are from the Census Bureau's 2015 American Community Survey. This produces a difference in total population due to the different source. Due to estimation limitations, some population totals may not equal the sum of its components. When needed, age groups were divided by assuming uniform age distribution within the age group. Non-Hispanic multiple race and Non-Hispanic some other race from the Census were combined into one group.

Estimations of those undiagnosed are from Centers for Disease Control and Prevention's 2015 HIV Surveillance Supplemental Report published July 2017. The continuum of care is adapted from a 2011 article in Clinical Infectious Diseases in which a continuum of care "cascade" is used to illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care.

Tabulation of Column Totals

Numbers in figures, tables and generally in the text have been rounded. Discrepancies in tables between totals and sums of components are due to rounding.

Data Suppression

In order to protect the confidentiality of reported HIV cases, data are suppressed in the following instances:

- Data describing a demographic group or geographic area (e.g. ZIP code) with a population less than 1,000 people.
- All clinical/laboratory information if it is describing less than 5 cases.
- All exposure/risk information if it is describing less than 5 cases, except in the case of "other" exposure.
- If any cell is suppressed, additional cells are also suppressed as necessary to prevent back calculation of the suppressed cell(s).

HIV Exposure Categories

The Centers for Disease Control and Prevention (CDC) developed a hierarchy of exposure categories for surveillance purposes. Persons with more than one reported risk factor are classified in the exposure category listed first in the hierarchy and therefore counted only once. Men who have sex with men and report injection drug use constitutes a separate transmission category.

MSM/IDU: Men who report a history of sexual contact with other men who also have engaged in injection drug use.

Men who have Sex with Men (MSM): Men who report a history of sexual contact with other men (homosexual contact) including men who report sexual contact with both men and women (bisexual contact).

Injection Drug Use (IDU): Men or women who report receiving an injection, either self-administered or given by another person, of a drug that was not prescribed by a physician.

Heterosexual Exposure (HET): Men or women who report a history of sexual contact with a person of the opposite sex who is known to have an HIV infection or at high risk for an HIV infection. High risk groups include bisexual men, IDUs and recipients of blood, blood components, transplants of organ or tissue and artificial insemination.

Perinatal Exposure: Any baby born to an HIV positive mother.

Other Exposure: Includes men or women who received clotting factor for hemophilia/coagulation disorder, or received a transfusion of blood/blood components, or received a transplant of tissue/organs or artificial insemination, or worked in a health care or clinical laboratory setting.

Not all exposure data is reported and is therefore missing for some cases. Multiple imputation is a statistical method by which missing exposure categories are replaced with estimated or probable exposure categories. Multiple imputation involves filling in the missing exposure category with multiple possible exposures, creating several complete datasets. Filling in the missing exposure category is done using the observed data for the individual case as well as data in aggregate from other cases in Maryland. The complete datasets, containing the various predictions for each missing exposure category, are combined to create a final dataset with previously missing exposure category replaced by weighted estimates.

MDH Non-Discrimination Statement

The Maryland Department of Health (MDH) complies with applicable Federal civil right laws and does not discriminate on the basis of race, color, national origin, age, disability in its health programs and activities.

English

Help is available in your language: 410-767-5227 (TTY: 1-800-735-2258). These services are available for free.

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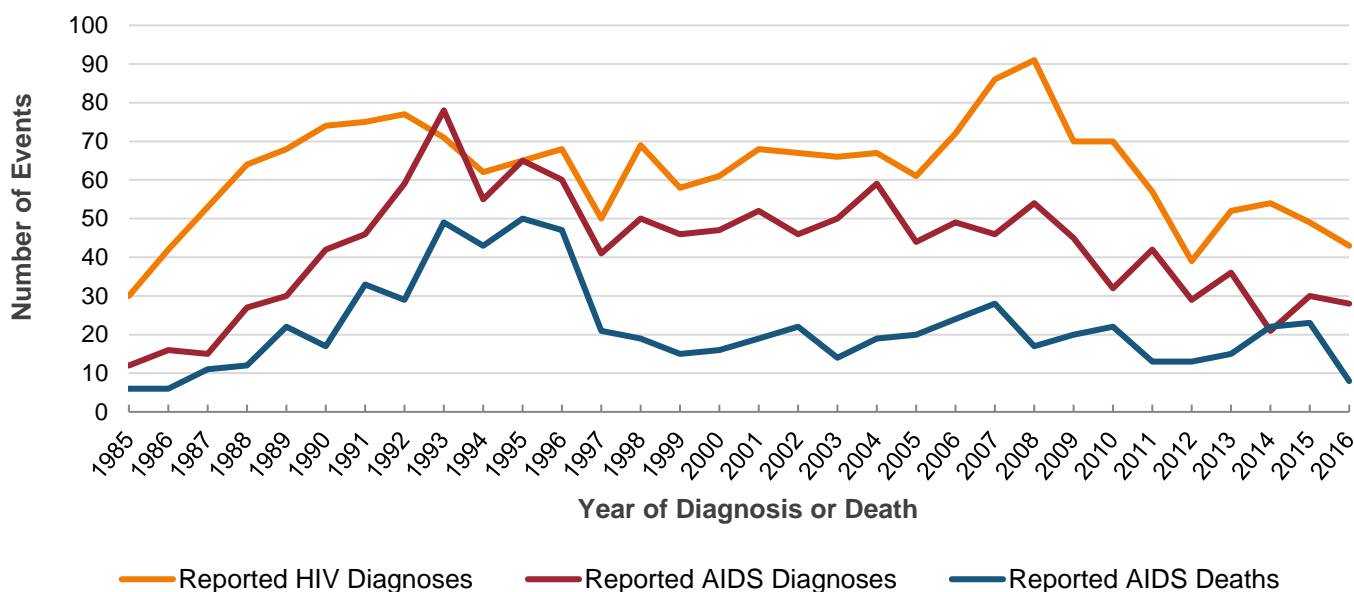
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Section II – Trends 1985-2016

Figure 1 – Trends in Reported HIV and AIDS Diagnoses and Deaths, 1985-2016, Reported through 6/30/2017

Reported HIV Cases with or without an AIDS Diagnosis (Reported HIV Diagnoses) by Year of HIV Diagnosis, Reported HIV Cases with an AIDS Diagnosis (Reported AIDS Diagnoses) by Year of AIDS Diagnosis, and Reported HIV Cases with an AIDS Diagnosis Reported to have Died of Any Cause (Reported AIDS Deaths) by Year of Death, from 1985 through 2016 as Reported through 6/30/2017



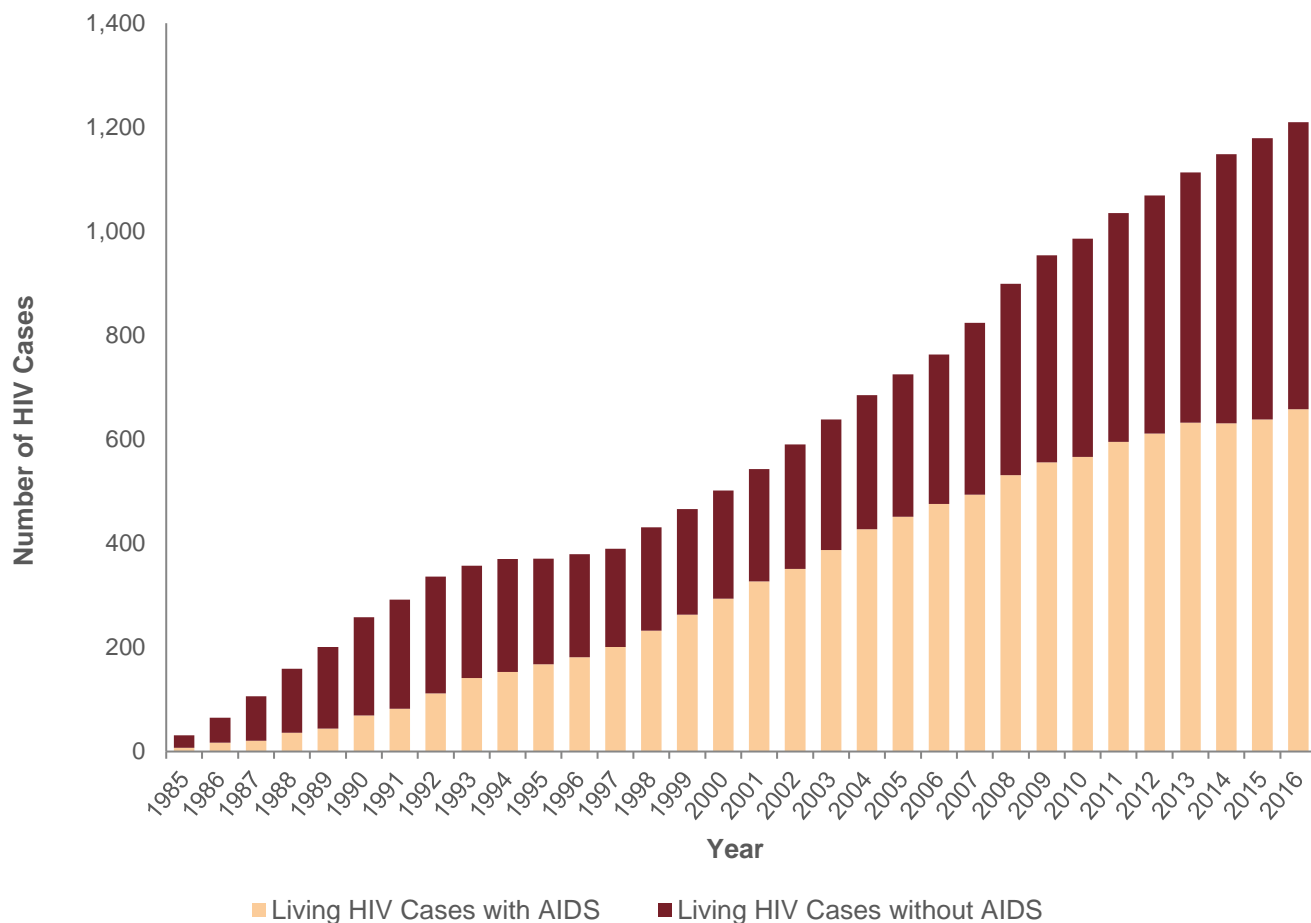
During the 2007-2008 transition to name-based reporting, many HIV cases were reported by a recent HIV diagnosis and not by their earliest HIV diagnosis, resulting in an artificial upward trend in HIV diagnoses during the period 2001-2008.

YEAR OF DIAGNOSIS OR DEATH	REPORTED HIV DIAGNOSES	REPORTED AIDS DIAGNOSES	REPORTED AIDS DEATHS	YEAR OF DIAGNOSIS OR DEATH	REPORTED HIV DIAGNOSES	REPORTED AIDS DIAGNOSES	REPORTED AIDS DEATHS
<1985	12	5	4	2001	68	52	19
1985	30	12	6	2002	67	46	22
1986	42	16	6	2003	66	50	14
1987	53	15	11	2004	67	59	19
1988	64	27	12	2005	61	44	20
1989	68	30	22	2006	72	49	24
1990	74	42	17	2007	86	46	28
1991	75	46	33	2008	91	54	17
1992	77	59	29	2009	70	45	20
1993	71	78	49	2010	70	32	22
1994	62	55	43	2011	57	42	13
1995	65	65	50	2012	39	29	13
1996	68	60	47	2013	52	36	15
1997	50	41	21	2014	54	21	22
1998	69	50	19	2015*	49	30	23
1999	58	46	15	2016*	43	28	8
2000	61	47	16	TOTAL	2,011	1,357	699

*2015-2016 reported AIDS deaths are preliminary.

Figure 2 – Trends in Living HIV Cases, 1985-2016, Reported through 6/30/2017

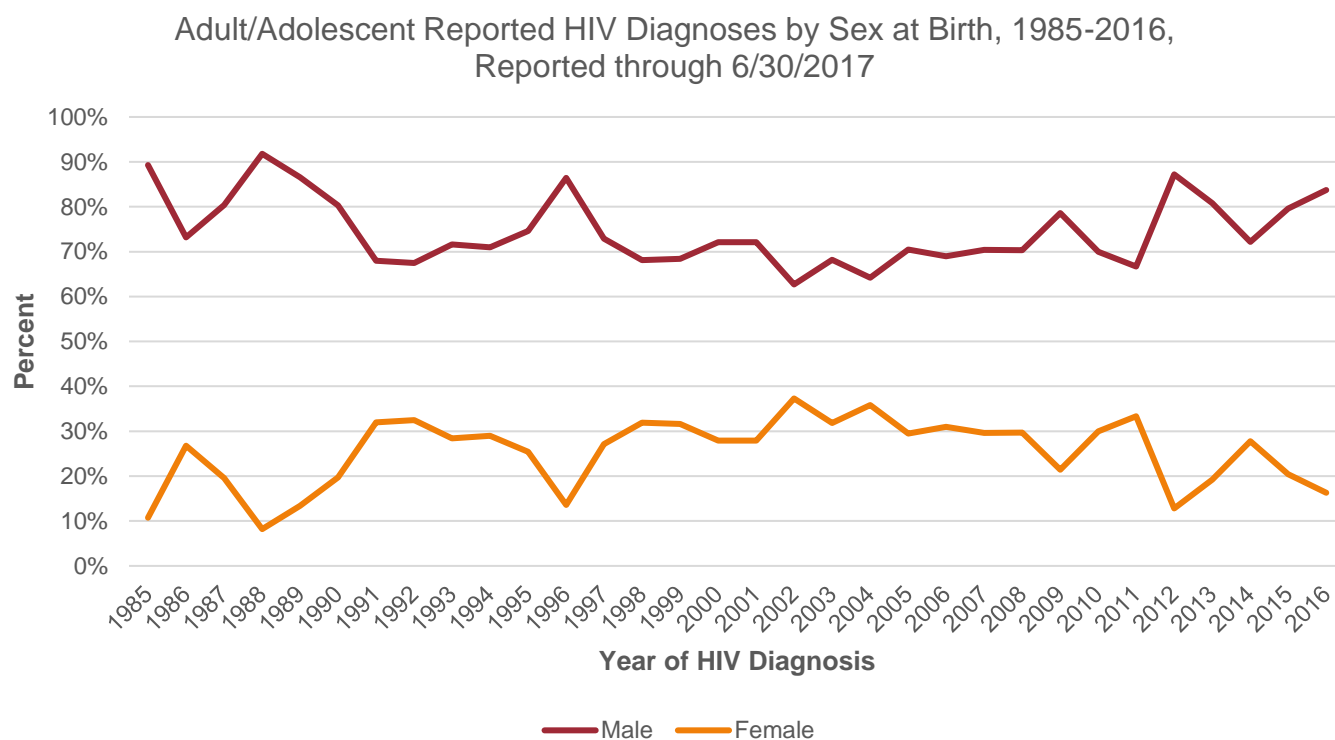
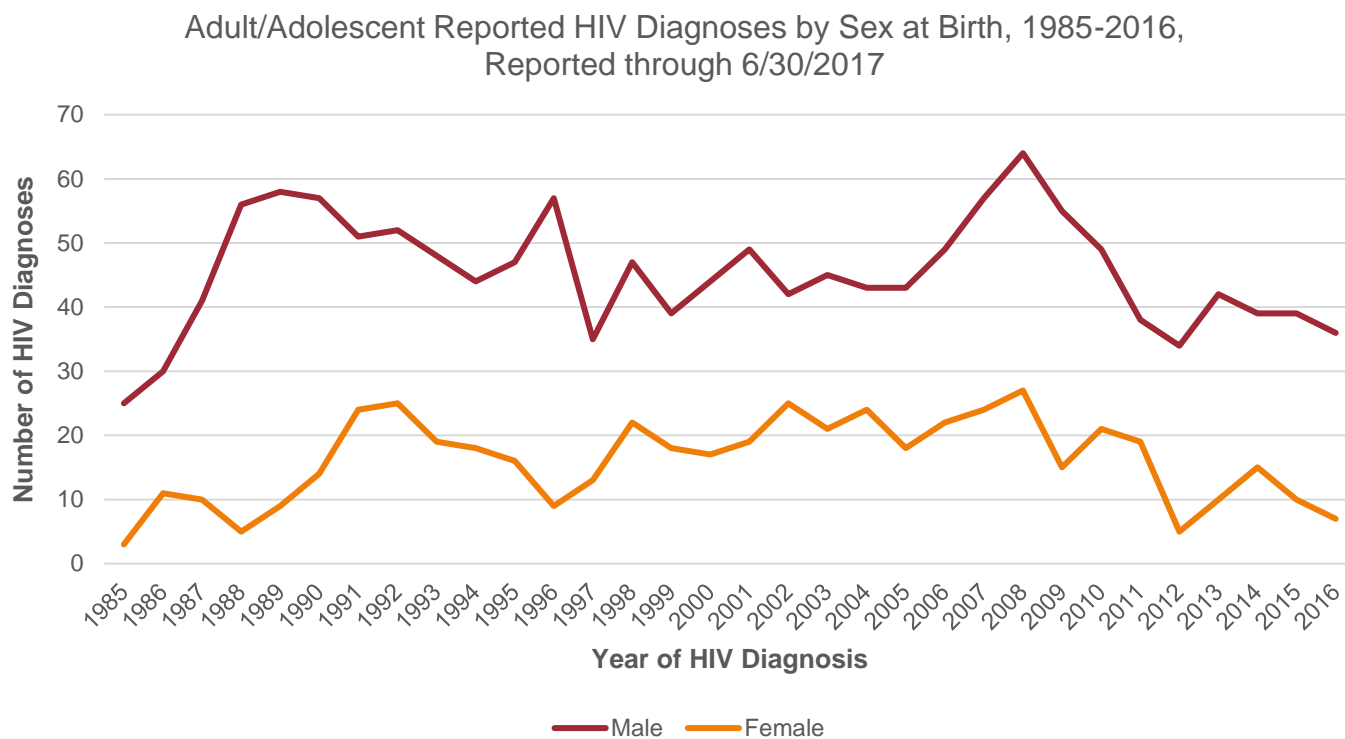
Reported HIV Cases with or without an AIDS Diagnosis and Not Reported to have Died as of December 31st of Each Year (Living HIV Cases without AIDS, Living HIV Cases with AIDS, and Total Living HIV Cases) from 1985 through 2016, as Reported through 6/30/2017



YEAR	LIVING HIV CASES WITHOUT AIDS	LIVING HIV CASES WITH AIDS	TOTAL LIVING HIV CASES	YEAR	LIVING HIV CASES WITHOUT AIDS	LIVING HIV CASES WITH AIDS	TOTAL LIVING HIV CASES
1985	24	7	31	2001	216	327	543
1986	48	17	65	2002	239	351	590
1987	85	21	106	2003	251	387	638
1988	123	36	159	2004	258	427	685
1989	157	44	201	2005	274	451	725
1990	189	69	258	2006	287	476	763
1991	210	82	292	2007	330	494	824
1992	224	112	336	2008	368	531	899
1993	216	141	357	2009	398	556	954
1994	217	153	370	2010	420	566	986
1995	203	168	371	2011	440	595	1,035
1996	198	181	379	2012	458	611	1,069
1997	189	201	390	2013	481	632	1,113
1998	199	232	431	2014	517	631	1,148
1999	203	263	466	2015	541	638	1,179
2000	208	294	502	2016	552	658	1,210

Figure 3 – Trends in Adult/Adolescent Reported HIV Diagnoses by Sex at Birth, 1985-2016, Reported through 6/30/2017

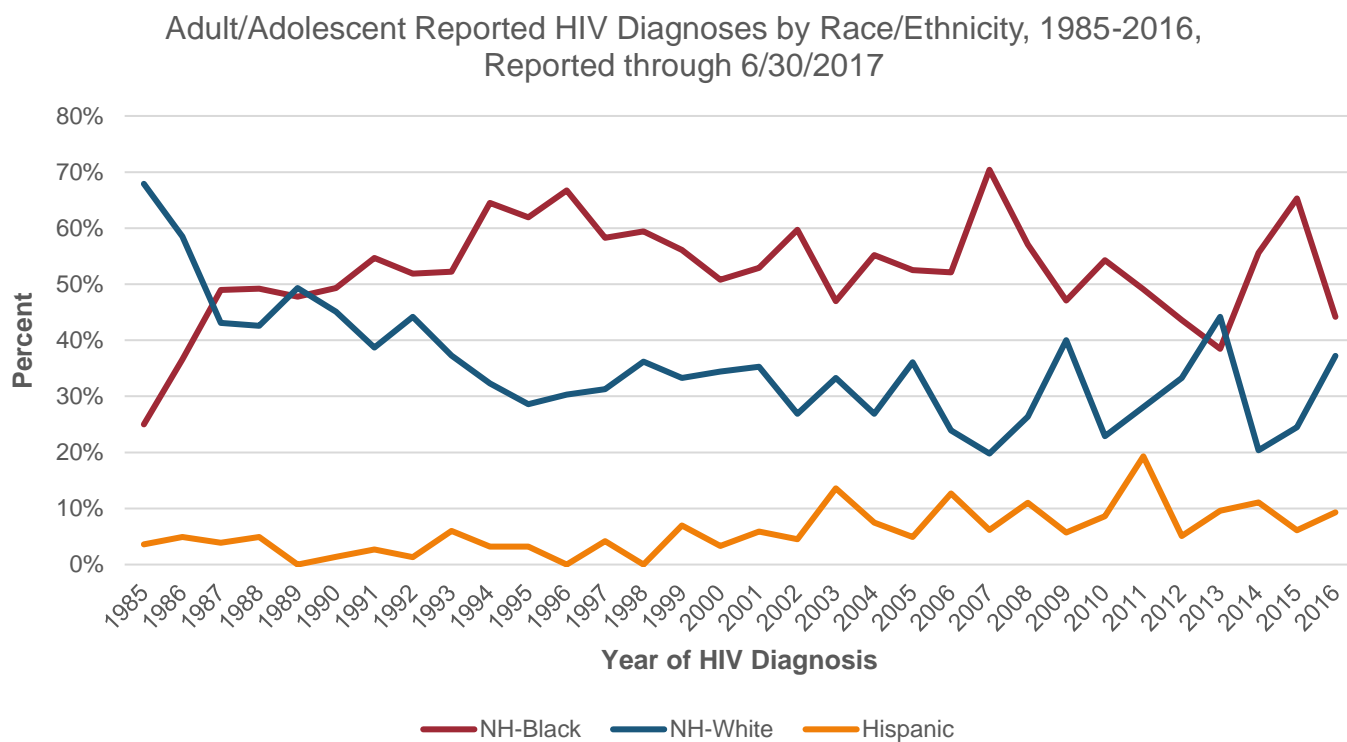
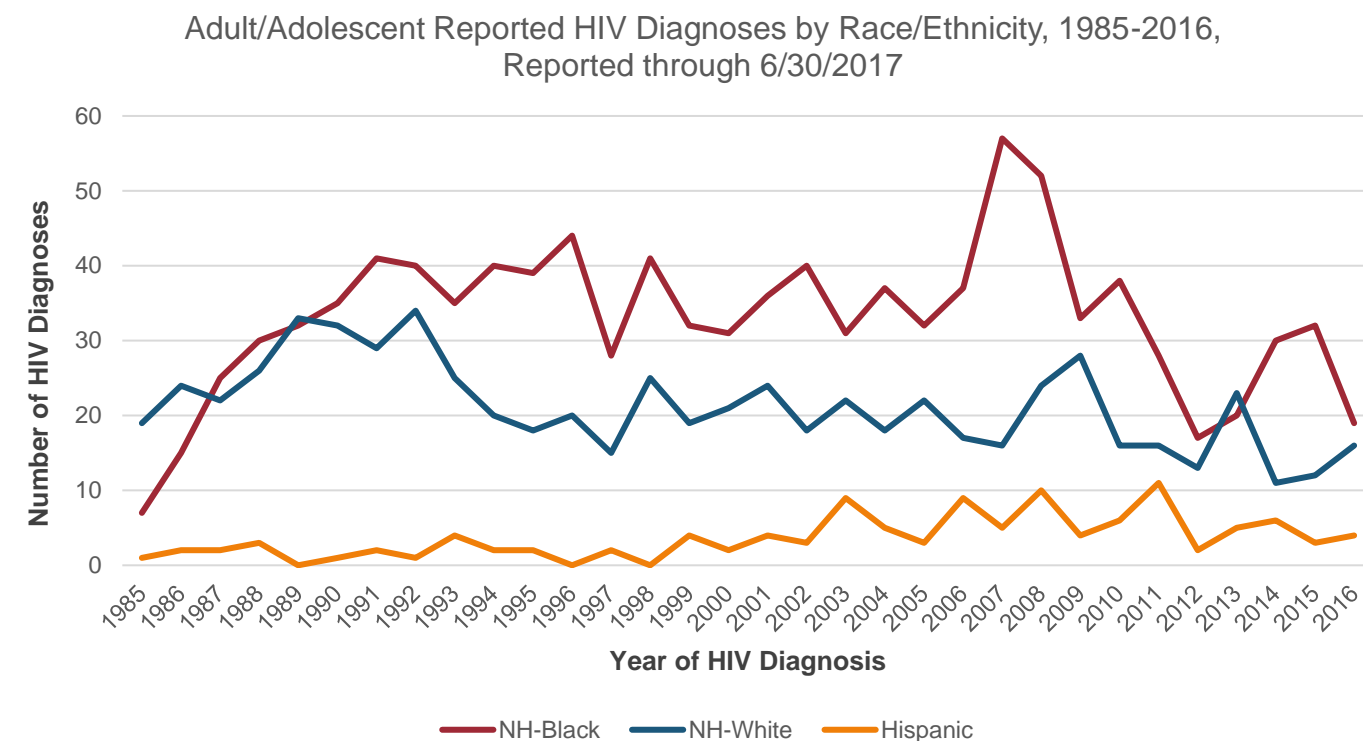
Number and Percent by Sex at Birth of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2016, as Reported through 6/30/2017



ADULT/ADOLESCENT REPORTED HIV DIAGNOSES					
YEAR OF HIV DIAGNOSIS	No.	SEX AT BIRTH			
		Male		Female	
		No.	%	No.	%
<1985	12	11	91.7%	1	8.3%
1985	28	25	89.3%	3	10.7%
1986	41	30	73.2%	11	26.8%
1987	51	41	80.4%	10	19.6%
1988	61	56	91.8%	5	8.2%
1989	67	58	86.6%	9	13.4%
1990	71	57	80.3%	14	19.7%
1991	75	51	68.0%	24	32.0%
1992	77	52	67.5%	25	32.5%
1993	67	48	71.6%	19	28.4%
1994	62	44	71.0%	18	29.0%
1995	63	47	74.6%	16	25.4%
1996	66	57	86.4%	9	13.6%
1997	48	35	72.9%	13	27.1%
1998	69	47	68.1%	22	31.9%
1999	57	39	68.4%	18	31.6%
2000	61	44	72.1%	17	27.9%
2001	68	49	72.1%	19	27.9%
2002	67	42	62.7%	25	37.3%
2003	66	45	68.2%	21	31.8%
2004	67	43	64.2%	24	35.8%
2005	61	43	70.5%	18	29.5%
2006	71	49	69.0%	22	31.0%
2007	81	57	70.4%	24	29.6%
2008	91	64	70.3%	27	29.7%
2009	70	55	78.6%	15	21.4%
2010	70	49	70.0%	21	30.0%
2011	57	38	66.7%	19	33.3%
2012	39	34	87.2%	5	12.8%
2013	52	42	80.8%	10	19.2%
2014	54	39	72.2%	15	27.8%
2015	49	39	79.6%	10	20.4%
2016	43	36	83.7%	7	16.3%
TOTAL	1,982	1,466	74.0%	516	26.0%

Figure 4 – Trends in Adult/Adolescent Reported HIV Diagnoses by Race/Ethnicity, 1985-2016, Reported through 6/30/2017

Number and Percent by Race/Ethnicity of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2016, as Reported through 6/30/2017

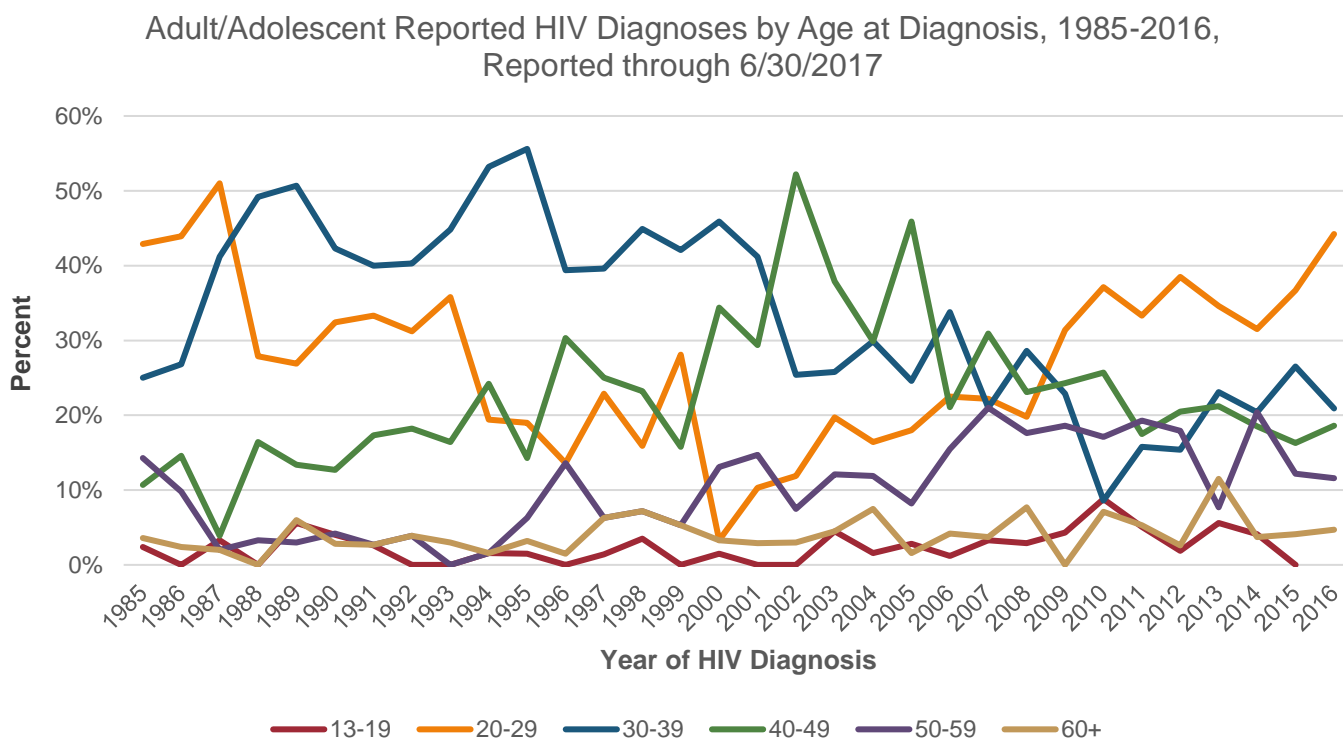
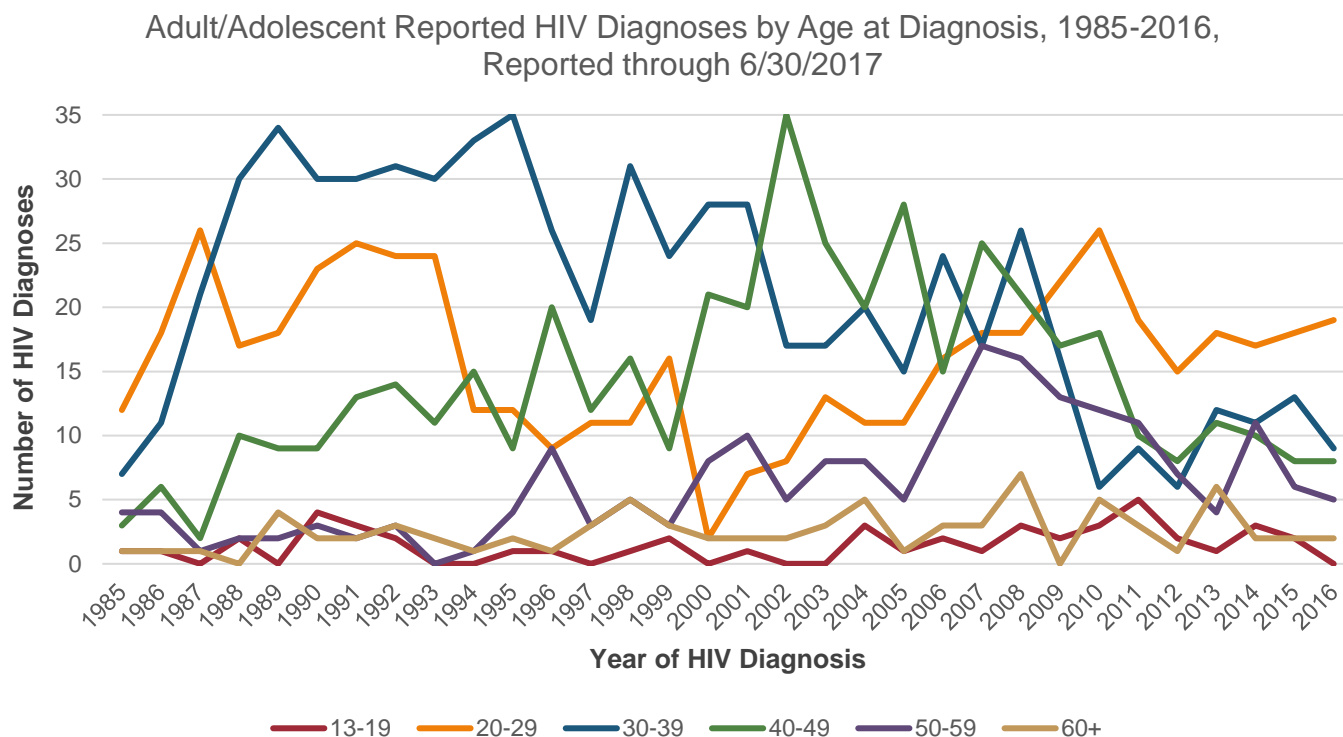


Non-Hispanic Other race not shown

YEAR OF HIV DIAGNOSIS	No.	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES							
		RACE/ETHNICITY							
		Hispanic		Non-Hispanic Black, only		Non-Hispanic White, only		Non-Hispanic Other Race	
		No.	%	No.	%	No.	%	No.	%
<1985	12	1	8.3%	3	25.0%	8	66.7%	0	0.0%
1985	28	1	3.6%	7	25.0%	19	67.9%	1	3.6%
1986	41	2	4.9%	15	36.6%	24	58.5%	0	0.0%
1987	51	2	3.9%	25	49.0%	22	43.1%	2	3.9%
1988	61	3	4.9%	30	49.2%	26	42.6%	2	3.3%
1989	67	0	0.0%	32	47.8%	33	49.3%	2	3.0%
1990	71	1	1.4%	35	49.3%	32	45.1%	3	4.2%
1991	75	2	2.7%	41	54.7%	29	38.7%	3	4.0%
1992	77	1	1.3%	40	51.9%	34	44.2%	2	2.6%
1993	67	4	6.0%	35	52.2%	25	37.3%	3	4.5%
1994	62	2	3.2%	40	64.5%	20	32.3%	0	0.0%
1995	63	2	3.2%	39	61.9%	18	28.6%	4	6.3%
1996	66	0	0.0%	44	66.7%	20	30.3%	2	3.0%
1997	48	2	4.2%	28	58.3%	15	31.3%	3	6.3%
1998	69	0	0.0%	41	59.4%	25	36.2%	3	4.3%
1999	57	4	7.0%	32	56.1%	19	33.3%	2	3.5%
2000	61	2	3.3%	31	50.8%	21	34.4%	7	11.5%
2001	68	4	5.9%	36	52.9%	24	35.3%	4	5.9%
2002	67	3	4.5%	40	59.7%	18	26.9%	6	9.0%
2003	66	9	13.6%	31	47.0%	22	33.3%	4	6.1%
2004	67	5	7.5%	37	55.2%	18	26.9%	7	10.4%
2005	61	3	4.9%	32	52.5%	22	36.1%	4	6.6%
2006	71	9	12.7%	37	52.1%	17	23.9%	8	11.3%
2007	81	5	6.2%	57	70.4%	16	19.8%	3	3.7%
2008	91	10	11.0%	52	57.1%	24	26.4%	5	5.5%
2009	70	4	5.7%	33	47.1%	28	40.0%	5	7.1%
2010	70	6	8.6%	38	54.3%	16	22.9%	10	14.3%
2011	57	11	19.3%	28	49.1%	16	28.1%	2	3.5%
2012	39	2	5.1%	17	43.6%	13	33.3%	7	17.9%
2013	52	5	9.6%	20	38.5%	23	44.2%	4	7.7%
2014	54	6	11.1%	30	55.6%	11	20.4%	7	13.0%
2015	49	3	6.1%	32	65.3%	12	24.5%	2	4.1%
2016	43	4	9.3%	19	44.2%	16	37.2%	4	9.3%
TOTAL	1,982	118	6.0%	1,057	53.3%	686	34.6%	121	6.1%

Figure 5 – Trends in Adult/Adolescent Reported HIV Diagnoses by Age at Diagnosis, 1985-2016, Reported through 6/30/2017

Number and Percent by Age at HIV Diagnosis of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2016, as Reported through 6/30/2017

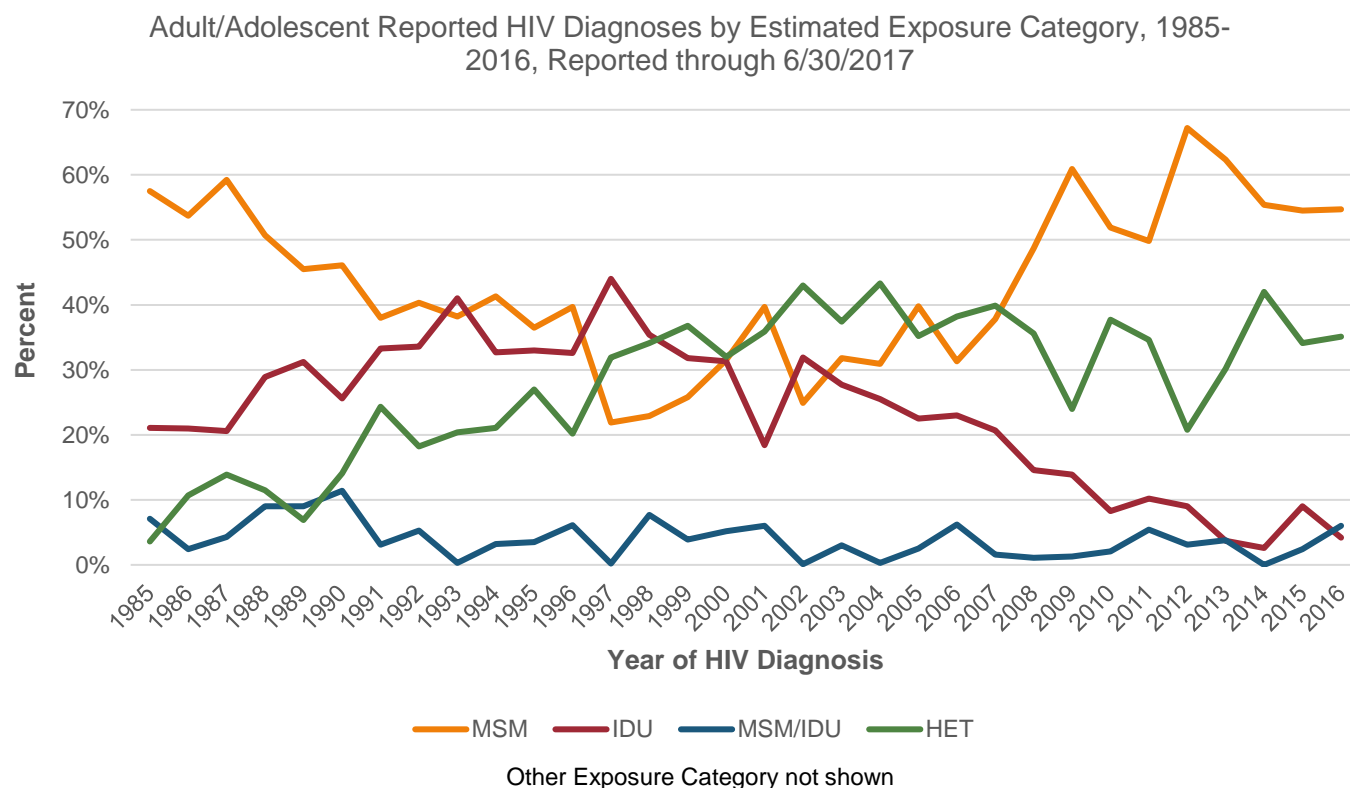
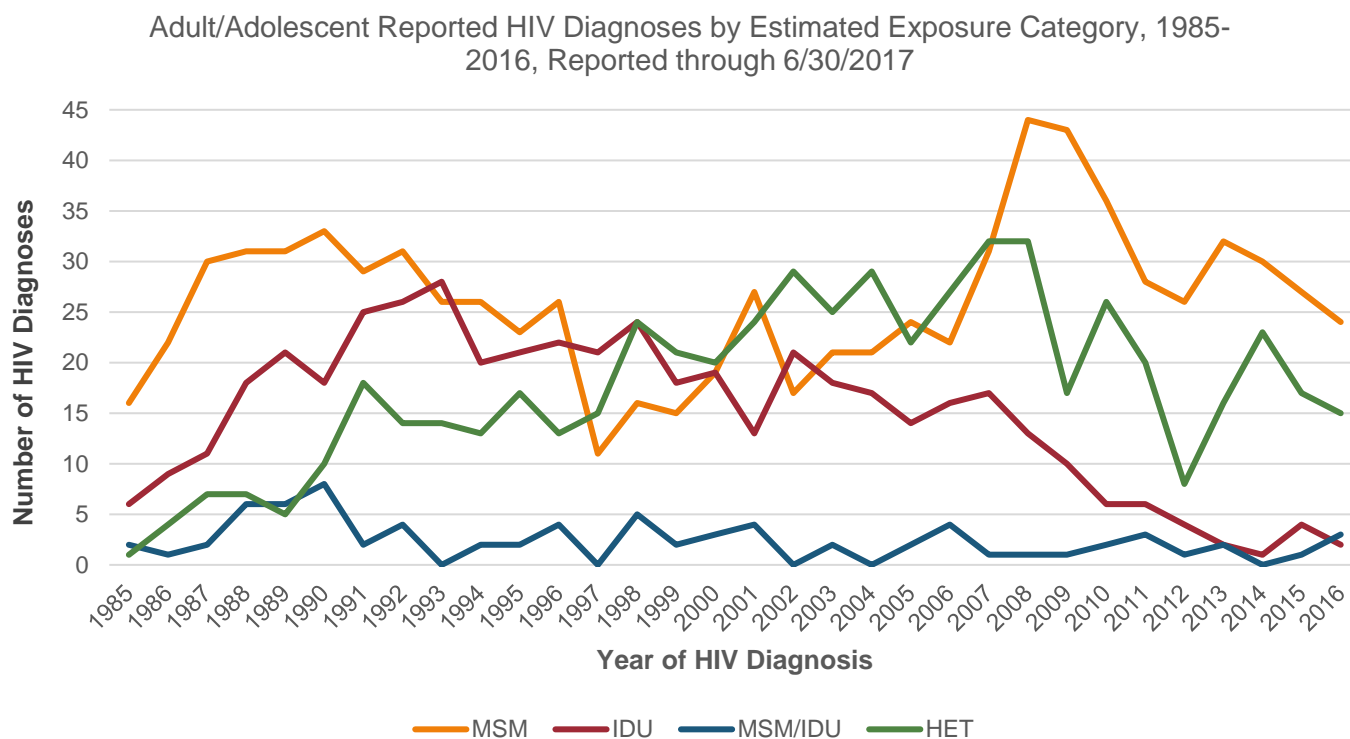


ADULT/ADOLESCENT REPORTED HIV DIAGNOSES

YEAR OF HIV DIAGNOSIS	No.	AGE AT HIV DIAGNOSIS											
		Age 13-19		Age 20-29		Age 30-39		Age 40-49		Age 50-59		Age 60+	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
<1985	12	2	16.7%	5	41.7%	4	33.3%	1	8.3%	0	0.0%	0	0.0%
1985	28	1	3.6%	12	42.9%	7	25.0%	3	10.7%	4	14.3%	1	3.6%
1986	41	1	2.4%	18	43.9%	11	26.8%	6	14.6%	4	9.8%	1	2.4%
1987	51	0	0.0%	26	51.0%	21	41.2%	2	3.9%	1	2.0%	1	2.0%
1988	61	2	3.3%	17	27.9%	30	49.2%	10	16.4%	2	3.3%	0	0.0%
1989	67	0	0.0%	18	26.9%	34	50.7%	9	13.4%	2	3.0%	4	6.0%
1990	71	4	5.6%	23	32.4%	30	42.3%	9	12.7%	3	4.2%	2	2.8%
1991	75	3	4.0%	25	33.3%	30	40.0%	13	17.3%	2	2.7%	2	2.7%
1992	77	2	2.6%	24	31.2%	31	40.3%	14	18.2%	3	3.9%	3	3.9%
1993	67	0	0.0%	24	35.8%	30	44.8%	11	16.4%	0	0.0%	2	3.0%
1994	62	0	0.0%	12	19.4%	33	53.2%	15	24.2%	1	1.6%	1	1.6%
1995	63	1	1.6%	12	19.0%	35	55.6%	9	14.3%	4	6.3%	2	3.2%
1996	66	1	1.5%	9	13.6%	26	39.4%	20	30.3%	9	13.6%	1	1.5%
1997	48	0	0.0%	11	22.9%	19	39.6%	12	25.0%	3	6.3%	3	6.3%
1998	69	1	1.4%	11	15.9%	31	44.9%	16	23.2%	5	7.2%	5	7.2%
1999	57	2	3.5%	16	28.1%	24	42.1%	9	15.8%	3	5.3%	3	5.3%
2000	61	0	0.0%	2	3.3%	28	45.9%	21	34.4%	8	13.1%	2	3.3%
2001	68	1	1.5%	7	10.3%	28	41.2%	20	29.4%	10	14.7%	2	2.9%
2002	67	0	0.0%	8	11.9%	17	25.4%	35	52.2%	5	7.5%	2	3.0%
2003	66	0	0.0%	13	19.7%	17	25.8%	25	37.9%	8	12.1%	3	4.5%
2004	67	3	4.5%	11	16.4%	20	29.9%	20	29.9%	8	11.9%	5	7.5%
2005	61	1	1.6%	11	18.0%	15	24.6%	28	45.9%	5	8.2%	1	1.6%
2006	71	2	2.8%	16	22.5%	24	33.8%	15	21.1%	11	15.5%	3	4.2%
2007	81	1	1.2%	18	22.2%	17	21.0%	25	30.9%	17	21.0%	3	3.7%
2008	91	3	3.3%	18	19.8%	26	28.6%	21	23.1%	16	17.6%	7	7.7%
2009	70	2	2.9%	22	31.4%	16	22.9%	17	24.3%	13	18.6%	0	0.0%
2010	70	3	4.3%	26	37.1%	6	8.6%	18	25.7%	12	17.1%	5	7.1%
2011	57	5	8.8%	19	33.3%	9	15.8%	10	17.5%	11	19.3%	3	5.3%
2012	39	2	5.1%	15	38.5%	6	15.4%	8	20.5%	7	17.9%	1	2.6%
2013	52	1	1.9%	18	34.6%	12	23.1%	11	21.2%	4	7.7%	6	11.5%
2014	54	3	5.6%	17	31.5%	11	20.4%	10	18.5%	11	20.4%	2	3.7%
2015	49	2	4.1%	18	36.7%	13	26.5%	8	16.3%	6	12.2%	2	4.1%
2016	43	0	0.0%	19	44.2%	9	20.9%	8	18.6%	5	11.6%	2	4.7%
TOTAL	1,982	49	2.5%	521	26.3%	670	33.8%	459	23.2%	203	10.2%	80	4.0%

Figure 6 – Trends in Adult/Adolescent Reported HIV Diagnoses by Estimated Exposure Category, 1985-2016, Reported through 6/30/2017

Number and Percent by Estimated Exposure Category[§] of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2016, as Reported through 6/30/2017



[§] Multiple imputation was used to estimate and adjust for missing transmission category.

YEAR OF HIV DIAGNOSIS	No.**	% with No Reported Exposure*	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES									
			ESTIMATED EXPOSURE CATEGORY [§]									
			MSM		IDU		MSM/IDU		HET		Other Exposure	
			No.	%	No.	%	No.	%	No.	%	No.	%
<1985	12	0.0%	5	41.7%	2	16.7%	2	16.7%	0	0.0%	3	25.0%
1985	28	7.1%	16	57.5%	6	21.1%	2	7.1%	1	3.6%	3	10.7%
1986	41	2.4%	22	53.7%	9	21.0%	1	2.4%	4	10.7%	5	12.2%
1987	51	9.8%	30	59.2%	11	20.6%	2	4.3%	7	13.9%	1	2.0%
1988	61	4.9%	31	50.7%	18	28.9%	6	9.0%	7	11.5%	0	0.0%
1989	67	7.5%	31	45.5%	21	31.2%	6	9.0%	5	6.9%	5	7.5%
1990	71	5.6%	33	46.1%	18	25.6%	8	11.4%	10	14.1%	2	2.8%
1991	75	2.7%	29	38.0%	25	33.3%	2	3.1%	18	24.3%	1	1.3%
1992	77	7.8%	31	40.3%	26	33.6%	4	5.3%	14	18.2%	2	2.6%
1993	67	6.0%	26	38.2%	28	41.0%	0	0.3%	14	20.4%	0	0.0%
1994	62	1.6%	26	41.3%	20	32.7%	2	3.2%	13	21.1%	1	1.6%
1995	63	7.9%	23	36.5%	21	33.0%	2	3.5%	17	27.0%	0	0.0%
1996	66	3.0%	26	39.7%	22	32.6%	4	6.1%	13	20.2%	1	1.5%
1997	48	12.5%	11	21.9%	21	44.0%	0	0.2%	15	31.9%	1	2.1%
1998	69	10.1%	16	22.9%	24	35.4%	5	7.7%	24	34.1%	0	0.0%
1999	57	8.8%	15	25.8%	18	31.8%	2	3.9%	21	36.8%	1	1.8%
2000	61	8.2%	19	31.5%	19	31.3%	3	5.2%	20	32.0%	0	0.0%
2001	68	11.8%	27	39.7%	13	18.4%	4	6.0%	24	35.9%	0	0.0%
2002	67	7.5%	17	24.9%	21	31.9%	0	0.1%	29	43.0%	0	0.0%
2003	66	7.6%	21	31.8%	18	27.7%	2	3.0%	25	37.4%	0	0.0%
2004	67	14.9%	21	30.9%	17	25.5%	0	0.3%	29	43.3%	0	0.0%
2005	61	24.6%	24	39.8%	14	22.5%	2	2.5%	22	35.2%	0	0.0%
2006	71	18.3%	22	31.3%	16	23.0%	4	6.2%	27	38.2%	1	1.4%
2007	81	22.2%	31	37.8%	17	20.7%	1	1.6%	32	39.9%	0	0.0%
2008	91	41.8%	44	48.7%	13	14.6%	1	1.1%	32	35.6%	0	0.0%
2009	70	24.3%	43	60.9%	10	13.9%	1	1.3%	17	24.0%	0	0.0%
2010	70	37.1%	36	51.9%	6	8.3%	2	2.1%	26	37.7%	0	0.0%
2011	57	31.6%	28	49.8%	6	10.2%	3	5.4%	20	34.6%	0	0.0%
2012	39	10.3%	26	67.2%	4	9.0%	1	3.1%	8	20.8%	0	0.0%
2013	52	19.2%	32	62.3%	2	3.7%	2	3.8%	16	30.2%	0	0.0%
2014	54	11.1%	30	55.4%	1	2.6%	0	0.0%	23	42.0%	0	0.0%
2015	49	12.2%	27	54.5%	4	9.0%	1	2.4%	17	34.1%	0	0.0%
2016	43	37.2%	24	54.7%	2	4.2%	3	6.0%	15	35.1%	0	0.0%
TOTAL	1,982	14.0%	840	42.4%	471	23.8%	80	4.0%	564	28.5%	27	1.4%

§ Multiple imputation was used to estimate and adjust for missing transmission category.

* Percent with no reported exposure prior to multiple imputation adjustment.

** Discrepancies in the table between total HIV diagnoses and the sums by exposure category are due to less than 1% of cases missing transmission category after multiple imputation.

Section III – Adult/Adolescent Cases by Jurisdiction

Table 1 – Adult/Adolescent HIV Diagnoses during 2016, Linked to Care, Late Diagnosis, and First CD4 Test Result by Jurisdiction of Residence at HIV Diagnosis, Reported through 6/30/2017

JURISDICTION OF RESIDENCE AT HIV DIAGNOSIS	POPULATION AGE 13+	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.	%	%	Median Count
20711	4,979	2	4.7%	40.2	***	***	***	***	***
20714	702	***	***	***	***	***	***	***	***
20724	11,629	3	7.0%	25.8	***	***	***	***	***
20733	1,997	***	***	***	***	***	***	***	***
20736	8	0	0.0%	0.0	--	--	--	--	--
20751	1,787	0	0.0%	0.0	--	--	--	--	--
20754	778	0	0.0%	0.0	--	--	--	--	--
20755	5,610	0	0.0%	0.0	--	--	--	--	--
20758	559	0	0.0%	0.0	--	--	--	--	--
20764	3,105	0	0.0%	0.0	--	--	--	--	--
20765	419	0	0.0%	0.0	--	--	--	--	--
20776	2,465	0	0.0%	0.0	--	--	--	--	--
20778	1,500	0	0.0%	0.0	--	--	--	--	--
20779	893	0	0.0%	0.0	--	--	--	--	--
20794	5,535	1	2.3%	18.1	***	***	***	***	***
21012	15,702	0	0.0%	0.0	--	--	--	--	--
21032	6,659	0	0.0%	0.0	--	--	--	--	--
21035	5,773	0	0.0%	0.0	--	--	--	--	--
21037	15,303	3	7.0%	19.6	***	***	***	***	***
21054	7,461	0	0.0%	0.0	--	--	--	--	--
21056	211	0	0.0%	0.0	--	--	--	--	--
21060	21,961	5	11.6%	22.8	***	***	***	100.0%	216
21061	39,614	5	11.6%	12.6	***	***	***	100.0%	215
21076	8,373	2	4.7%	23.9	***	***	***	***	***
21077	167	0	0.0%	0.0	--	--	--	--	--
21090	7,494	1	2.3%	13.3	***	***	***	***	***
21108	13,035	1	2.3%	7.7	***	***	***	***	***
21113	21,813	1	2.3%	4.6	***	***	***	***	***
21114	17,992	0	0.0%	0.0	--	--	--	--	--
21122	44,839	1	2.3%	2.2	***	***	***	***	***
21140	2,549	0	0.0%	0.0	--	--	--	--	--
21144	22,716	5	11.6%	22.0	***	***	***	***	***
21146	19,452	1	2.3%	5.1	***	***	***	***	***
21225	10,675	1	2.3%	9.4	***	***	***	***	***
21226	3,137	1	2.3%	31.9	***	***	***	***	***
21401	27,529	2	4.7%	7.3	***	***	***	***	***
21402	4,408	0	0.0%	0.0	--	--	--	--	--
21403	22,797	5	11.6%	21.9	***	***	***	***	***
21405	416	0	0.0%	0.0	--	--	--	--	--
21409	14,561	2	4.7%	13.7	***	***	***	***	***
TOTAL	476,307	43	100.0%	9.0	79.1%	86.0%	39.5%	88.4%	259

*** Data withheld due to low population counts and/or case counts

Jurisdiction of Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2016.

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Rate: Number of adult/adolescent HIV diagnoses divided by the population age 13 years or older and multiplied by 100,000.

Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

First CD4 Test Result Percent: Percent of adult/adolescent reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Table 2 – Adult/Adolescent AIDS Diagnoses during 2016, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Jurisdiction of Residence at AIDS Diagnosis, Reported through 6/30/2017

JURISDICTION OF RESIDENCE AT AIDS DIAGNOSIS	POPULATION AGE 13+	ADULT/ADOLESCENT REPORTED AIDS DIAGNOSES				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
20711	4,979	1	3.6%	20.1	***	***
20714	702	0	0.0%	0.0	--	--
20724	11,629	1	3.6%	8.6	***	***
20733	1,997	1	3.6%	50.1	***	***
20736	8	0	0.0%	0.0	--	--
20751	1,787	0	0.0%	0.0	--	--
20754	778	0	0.0%	0.0	--	--
20755	5,610	0	0.0%	0.0	--	--
20758	559	0	0.0%	0.0	--	--
20764	3,105	0	0.0%	0.0	--	--
20765	419	0	0.0%	0.0	--	--
20776	2,465	0	0.0%	0.0	--	--
20778	1,500	0	0.0%	0.0	--	--
20779	893	0	0.0%	0.0	--	--
20794	5,535	1	3.6%	18.1	***	***
21012	15,702	0	0.0%	0.0	--	--
21032	6,659	0	0.0%	0.0	--	--
21035	5,773	0	0.0%	0.0	--	--
21037	15,303	2	7.1%	13.1	***	***
21054	7,461	0	0.0%	0.0	--	--
21056	211	0	0.0%	0.0	--	--
21060	21,961	2	7.1%	9.1	***	***
21061	39,614	5	17.9%	12.6	3.6	40.0%
21076	8,373	1	3.6%	11.9	***	***
21077	167	0	0.0%	0.0	--	--
21090	7,494	0	0.0%	0.0	--	--
21108	13,035	0	0.0%	0.0	--	--
21113	21,813	3	10.7%	13.8	***	***
21114	17,992	0	0.0%	0.0	--	--
21122	44,839	0	0.0%	0.0	--	--
21140	2,549	0	0.0%	0.0	--	--
21144	22,716	6	21.4%	26.4	5.7	50.0%
21146	19,452	0	0.0%	0.0	--	--
21225	10,675	1	3.6%	9.4	***	***
21226	3,137	1	3.6%	31.9	***	***
21401	27,529	0	0.0%	0.0	--	--
21402	4,408	0	0.0%	0.0	--	--
21403	22,797	1	3.6%	4.4	***	***
21405	416	0	0.0%	0.0	--	--
21409	14,561	2	7.1%	13.7	***	***
TOTAL	476,307	28	100.0%	5.9	4.0	57.1%

*** Data withheld due to low population counts and/or case counts

Jurisdiction of Residence at AIDS Diagnosis: Jurisdiction of residence at time of initial AIDS diagnosis.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2016.

Adult/Adolescent Reported AIDS Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

Rate: Number of adult/adolescent AIDS diagnoses divided by the population age 13 years or older and multiplied by 100,000.

Mean Years from HIV Diagnosis: Mean number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

Percent Late HIV Diagnosis: Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 12 months prior to their initial AIDS diagnosis.

Table 3 – Adult/Adolescent HIV Cases Alive on 12/31/2016, by Jurisdiction of Residence at Diagnosis, Reported through 6/30/2017

JURISDICTION OF RESIDENCE AT DIAGNOSIS	POPULATION AGE 13+	ADULT/ADOLESCENT LIVING HIV CASES WITHOUT AIDS			ADULT/ADOLESCENT LIVING HIV CASES WITH AIDS			ADULT/ADOLESCENT TOTAL LIVING HIV CASES			
		No.	% of Total	Rate	No.	% of Total	Rate	No.	% of Total	Rate	Ratio (1 in X)
20711	4,979	7	1.3%	140.6	7	1.1%	140.6	14	1.2%	281.2	355
20714	702	***	***	***	***	***	***	***	***	***	***
20724	11,629	38	7.0%	326.8	46	7.1%	395.6	84	7.1%	722.3	138
20733	1,997	3	0.6%	150.2	2	0.3%	100.2	5	0.4%	250.4	399
20736	8	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	--
20751	1,787	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	--
20754	778	***	***	***	***	***	***	***	***	***	***
20755	5,610	6	1.1%	106.9	4	0.6%	71.3	10	0.8%	178.2	561
20758	559	***	***	***	***	***	***	***	***	***	***
20764	3,105	1	0.2%	32.2	4	0.6%	128.8	5	0.4%	161.0	621
20765	419	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	--
20776	2,465	3	0.6%	121.7	1	0.2%	40.6	4	0.3%	162.3	616
20778	1,500	2	0.4%	133.3	0	0.0%	0.0	2	0.2%	133.3	749
20779	893	***	***	***	***	***	***	***	***	***	***
20794	5,535	6	1.1%	108.4	14	2.2%	252.9	20	1.7%	361.3	276
21012	15,702	11	2.0%	70.1	11	1.7%	70.1	22	1.9%	140.1	713
21032	6,659	4	0.7%	60.1	8	1.2%	120.1	12	1.0%	180.2	554
21035	5,773	4	0.7%	69.3	1	0.2%	17.3	5	0.4%	86.6	1,154
21037	15,303	10	1.8%	65.3	16	2.5%	104.6	26	2.2%	169.9	588
21054	7,461	6	1.1%	80.4	7	1.1%	93.8	13	1.1%	174.2	573
21056	211	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	--
21060	21,961	37	6.8%	168.5	46	7.1%	209.5	83	7.0%	377.9	264
21061	39,614	88	16.2%	222.1	96	14.9%	242.3	184	15.5%	464.5	215
21076	8,373	11	2.0%	131.4	12	1.9%	143.3	23	1.9%	274.7	364
21077	167	***	***	***	***	***	***	***	***	***	***
21090	7,494	11	2.0%	146.8	4	0.6%	53.4	15	1.3%	200.2	499
21108	13,035	12	2.2%	92.1	9	1.4%	69.0	21	1.8%	161.1	620
21113	21,813	29	5.3%	132.9	31	4.8%	142.1	60	5.0%	275.1	363
21114	17,992	21	3.9%	116.7	12	1.9%	66.7	33	2.8%	183.4	545
21122	44,839	30	5.5%	66.9	39	6.0%	87.0	69	5.8%	153.9	649
21140	2,549	3	0.6%	117.7	1	0.2%	39.2	4	0.3%	156.9	637
21144	22,716	45	8.3%	198.1	48	7.4%	211.3	93	7.8%	409.4	244
21146	19,452	7	1.3%	36.0	15	2.3%	77.1	22	1.9%	113.1	884
21225	10,675	27	5.0%	252.9	39	6.0%	365.3	66	5.6%	618.3	161
21226	3,137	2	0.4%	63.8	1	0.2%	31.9	3	0.3%	95.6	1,045
21401	27,529	56	10.3%	203.4	92	14.2%	334.2	148	12.4%	537.6	186
21402	4,408	0	0.0%	0.0	1	0.2%	22.7	1	0.1%	22.7	4,408
21403	22,797	42	7.7%	184.2	62	9.6%	272.0	104	8.7%	456.2	219
21405	416	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	--
21409	14,561	8	1.5%	54.9	10	1.5%	68.7	18	1.5%	123.6	808
Unknown	--	8	1.5%	--	3	0.5%	--	11	0.9%	--	--
TOTAL	476,307	543	100.0%	114.0	646	100.0%	135.6	1,189	100.0%	249.6	400

*** Data withheld due to low population counts and/or case counts

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at later time of initial HIV diagnosis or time of initial AIDS diagnosis.

Population Age 13+: Population greater than or equal to 13 years old, estimate for 7/1/2016.

Adult/Adolescent Living HIV Cases without AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Living HIV Cases with AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Rate: Number of adult/adolescent cases divided by the population age 13 years or older multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 4 – Adult/Adolescent HIV Cases Alive on 12/31/2016, by Jurisdiction of Residence at Diagnosis or Current Residence, Reported through 6/30/2017

ADULT/ADOLESCENT TOTAL LIVING CASES										
JURISDICTION OF RESIDENCE	POPULATION AGE 13+	Residence at Diagnosis				Current Residence				% Change
		No.	% of Total	Rate	Ratio (1 in X)	No.	% of Total	Rate	Ratio (1 in X)	
20711	4,979	14	1.2%	281.2	355	11	0.9%	220.9	452	-21.4%
20714	702	***	***	***	***	***	***	***	***	***
20724	11,629	84	7.1%	722.3	138	96	7.7%	825.5	121	14.3%
20733	1,997	5	0.4%	250.4	399	5	0.4%	250.4	399	0.0%
20736	8	***	***	***	***	***	***	***	***	***
20751	1,787	0	0.0%	0.0	--	2	0.2%	111.9	893	--
20754	778	***	***	***	***	***	***	***	***	***
20755	5,610	10	0.8%	178.2	561	5	0.4%	89.1	1,122	-50.0%
20758	559	***	***	***	***	***	***	***	***	***
20764	3,105	5	0.4%	161.0	621	5	0.4%	161.0	621	0.0%
20765	419	***	***	***	***	***	***	***	***	***
20776	2,465	4	0.3%	162.3	616	8	0.6%	324.6	308	100.0%
20778	1,500	2	0.2%	133.3	749	1	0.1%	66.7	1,500	-50.0%
20779	893	***	***	***	***	***	***	***	***	***
20794	5,535	20	1.7%	361.3	276	19	1.5%	343.3	291	-5.0%
21012	15,702	22	1.9%	140.1	713	20	1.6%	127.4	785	-9.1%
21032	6,659	12	1.0%	180.2	554	8	0.6%	120.1	832	-33.3%
21035	5,773	5	0.4%	86.6	1,154	3	0.2%	52.0	1,924	-40.0%
21037	15,303	26	2.2%	169.9	588	29	2.3%	189.5	527	11.5%
21054	7,461	13	1.1%	174.2	573	11	0.9%	147.4	678	-15.4%
21056	211	***	***	***	***	***	***	***	***	***
21060	21,961	83	7.0%	377.9	264	127	10.2%	578.3	172	53.0%
21061	39,614	184	15.5%	464.5	215	198	15.9%	499.8	200	7.6%
21076	8,373	23	1.9%	274.7	364	38	3.0%	453.8	220	65.2%
21077	167	***	***	***	***	***	***	***	***	***
21090	7,494	15	1.3%	200.2	499	22	1.8%	293.6	340	46.7%
21108	13,035	21	1.8%	161.1	620	18	1.4%	138.1	724	-14.3%
21113	21,813	60	5.0%	275.1	363	80	6.4%	366.7	272	33.3%
21114	17,992	33	2.8%	183.4	545	32	2.6%	177.9	562	-3.0%
21122	44,839	69	5.8%	153.9	649	79	6.3%	176.2	567	14.5%
21140	2,549	4	0.3%	156.9	637	4	0.3%	156.9	637	0.0%
21144	22,716	93	7.8%	409.4	244	85	6.8%	374.2	267	-8.6%
21146	19,452	22	1.9%	113.1	884	21	1.7%	108.0	926	-4.5%
21225	10,675	66	5.6%	618.3	161	63	5.0%	590.2	169	-4.5%
21226	3,137	3	0.3%	95.6	1,045	5	0.4%	159.4	627	66.7%
21401	27,529	148	12.4%	537.6	186	115	9.2%	417.7	239	-22.3%
21402	4,408	1	0.1%	22.7	4,408	0	0.0%	0.0	--	-100.0%
21403	22,797	104	8.7%	456.2	219	97	7.8%	425.5	235	-6.7%
21405	416	***	***	***	***	***	***	***	***	***
21409	14,561	18	1.5%	123.6	808	28	2.2%	192.3	520	55.6%
Unknown	--	11	0.9%	--	--	3	0.2%	--	--	-72.7%
TOTAL	476,307	1,189	100.0%	249.6	400	1,248	100.0%	262.0	381	5.0%

*** Data withheld due to low population counts and/or case counts

Jurisdiction of Residence: Jurisdiction of residence at diagnosis or current residence.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2016.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Residence at Diagnosis: Jurisdiction of residence at later time of initial HIV diagnosis or initial AIDS diagnosis.

Current Residence: Jurisdiction of residence from the most recent report since 1/1/2009.

Rate: Number of adult/adolescent cases divided by the population age 13 years or older multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Percent Change: The percent change in number of adult/adolescent total living HIV cases from residence at diagnosis to current residence.

Table 5 – CD4 Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Jurisdiction of Current Residence, Reported through 6/30/2017

JURISDICTION OF CURRENT RESIDENCE	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
20711	11	9	81.8%	479	11.1%	11.1%	33.3%	44.4%
20714	***	***	***	***	***	***	***	***
20724	96	59	61.5%	627	5.1%	10.2%	23.7%	61.0%
20733	5	***	***	***	***	***	***	***
20736	***	***	***	***	***	***	***	***
20751	2	***	***	***	***	***	***	***
20754	***	***	***	***	***	***	***	***
20755	5	***	***	***	***	***	***	***
20758	***	***	***	***	***	***	***	***
20764	5	***	***	***	***	***	***	***
20765	***	***	***	***	***	***	***	***
20776	8	***	***	***	***	***	***	***
20778	1	***	***	***	***	***	***	***
20779	***	***	***	***	***	***	***	***
20794	19	14	73.7%	640	14.3%	21.4%	0.0%	64.3%
21012	20	13	65.0%	485	7.7%	15.4%	30.8%	46.2%
21032	8	***	***	***	***	***	***	***
21035	3	***	***	***	***	***	***	***
21037	29	14	48.3%	567	0.0%	28.6%	21.4%	50.0%
21054	11	8	72.7%	887	0.0%	0.0%	12.5%	87.5%
21056	***	***	***	***	***	***	***	***
21060	127	85	66.9%	553	15.3%	11.8%	10.6%	62.4%
21061	198	127	64.1%	550	16.5%	9.4%	16.5%	57.5%
21076	38	28	73.7%	556	17.9%	7.1%	17.9%	57.1%
21077	***	***	***	***	***	***	***	***
21090	22	14	63.6%	613	7.1%	14.3%	21.4%	57.1%
21108	18	12	66.7%	755	8.3%	0.0%	16.7%	75.0%
21113	80	48	60.0%	642	10.4%	12.5%	12.5%	64.6%
21114	32	20	62.5%	618	5.0%	5.0%	15.0%	75.0%
21122	79	56	70.9%	525	7.1%	19.6%	19.6%	53.6%
21140	4	***	***	***	***	***	***	***
21144	85	60	70.6%	604	11.7%	10.0%	16.7%	61.7%
21146	21	16	76.2%	580	6.3%	12.5%	12.5%	68.8%
21225	63	37	58.7%	590	10.8%	13.5%	16.2%	59.5%
21226	5	***	***	***	***	***	***	***
21401	115	77	67.0%	599	9.1%	16.9%	7.8%	66.2%
21402	0	--	--	--	--	--	--	--
21403	97	60	61.9%	585	6.7%	10.0%	13.3%	70.0%
21405	***	***	***	***	***	***	***	***
21409	28	19	67.9%	578	0.0%	15.8%	21.1%	63.2%
Unknown	3	3	100.0%	349	33.3%	33.3%	0.0%	33.3%
TOTAL	1,248	815	65.3%	585	10.7%	11.9%	15.6%	61.8%

*** Data withheld due to low population counts and/or case counts

Jurisdiction of Current Residence: Jurisdiction of residence from the most recent report since 1/1/2009.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

With Test: Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

Median Count: Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of adult/adolescent living HIV cases with a recent CD4 test result distributed by the CD4 count results (cells per microliter).

Table 6 – Viral Load Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Jurisdiction of Current Residence, Reported through 6/30/2017

JURISDICTION OF CURRENT RESIDENCE	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
	No.	Recent Viral Load Test Result			Median Unsuppressed
		No. with Test	% with Test	% Suppressed	
20711	11	10	90.9%	70.0%	15,140
20714	0	--	--	--	--
20724	96	61	63.5%	96.7%	82,640
20733	5	***	***	***	***
20736	0	--	--	--	--
20751	2	***	***	***	***
20754	***	***	***	***	***
20755	5	***	***	***	***
20758	***	***	***	***	***
20764	5	***	***	***	***
20765	0	--	--	--	--
20776	8	***	***	***	***
20778	1	***	***	***	***
20779	***	***	***	***	***
20794	19	13	68.4%	84.6%	6,486
21012	20	11	55.0%	81.8%	65,883
21032	8	5	62.5%	60.0%	40,157
21035	3	***	***	***	***
21037	29	13	44.8%	100.0%	--
21054	11	6	54.5%	83.3%	88,364
21056	0	--	--	--	--
21060	127	77	60.6%	79.2%	40,714
21061	198	118	59.6%	74.6%	13,455
21076	38	24	63.2%	79.2%	480
21077	***	***	***	***	***
21090	22	14	63.6%	64.3%	556
21108	18	12	66.7%	75.0%	6,871
21113	80	47	58.8%	72.3%	2,699
21114	32	19	59.4%	68.4%	5,718
21122	79	56	70.9%	82.1%	17,328
21140	4	***	***	***	***
21144	85	63	74.1%	77.8%	966
21146	21	12	57.1%	100.0%	--
21225	63	37	58.7%	81.1%	28,985
21226	5	***	***	***	***
21401	115	74	64.3%	78.4%	8,026
21402	0	--	--	--	--
21403	97	58	59.8%	82.8%	4,100
21405	0	--	--	--	--
21409	28	18	64.3%	88.9%	100,610
Unknown	3	2	66.7%	50.0%	33,368
TOTAL	1,248	782	62.7%	79.9%	10,471

*** Data withheld due to low population counts and/or case counts

Jurisdiction of Current Residence: Jurisdiction of residence from the most recent report since 1/1/2009.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

With Test: Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.

Percent Suppressed: Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

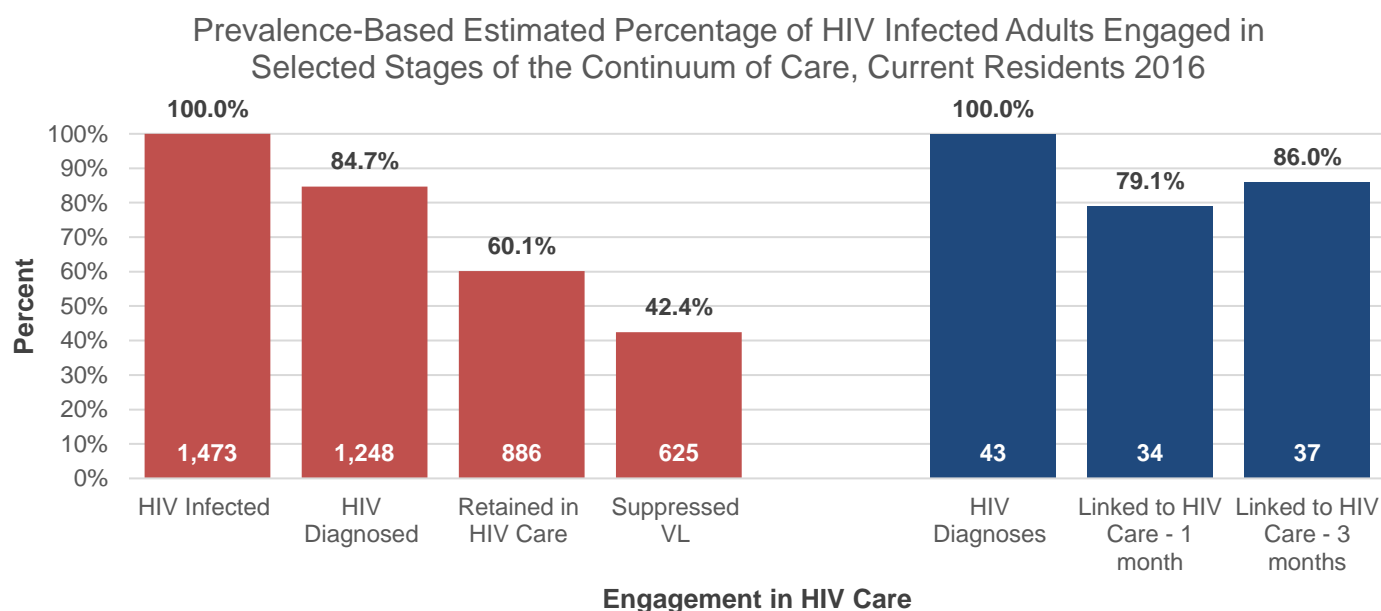
Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among adult/adolescent total living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Section IV – Continuum of Care Cascades

In their 2011 article in *Clinical Infectious Diseases*, Gardner et al.¹ utilize a continuum of care “cascade” to illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care.

Figure 7 – Prevalence-Based Estimated Adult/Adolescent 2016 HIV Continuum of Care Cascades, Current Anne Arundel County Residents, Reported through 6/30/2017

The prevalence-based Anne Arundel County Engagement in HIV Care Cascade (below) uses the most recent Centers for Disease Control and Prevention (CDC) estimate of the number of undiagnosed persons in Maryland (15.3%)² to generate an estimated number of HIV infected persons currently residing in Anne Arundel County. It then uses Maryland surveillance data to describe the number and percentage of persons living with HIV in the county on 12/31/2016 and the number and percentage of new HIV diagnoses in 2016 who belong to each of the stages of engagement in HIV care.



Continuum of Care Stage	Living HIV Cases		Continuum of Care Stage	New Diagnoses	
	Number	Percentage		Number	Percentage
HIV Infected	1,473	100.0%	New HIV Diagnoses	43	100.0%
HIV Diagnosed	1,248	84.7%	Linked to HIV Care – 1 Month	34	79.1%
Retained in HIV Care	886	60.1%	Linked to HIV Care – 3 Months	37	86.0%
Suppressed VL	625	42.4%			

HIV Infected: HIV Diagnosed divided by one minus the estimate of undiagnosed HIV infections (15.3%) in Maryland.

HIV Diagnosed: Adult/adolescent total living HIV cases as of December 31st of the specified year.

Retained in HIV Care: HIV Diagnosed with a reported CD4 or viral load test result performed during the specified year.

Suppressed Viral Load: HIV Diagnosed with the most recent viral load measured in the specified year of less than 200 copies per milliliter.

New HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Linked to HIV Care – 1 month: Adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month after their initial HIV diagnosis.

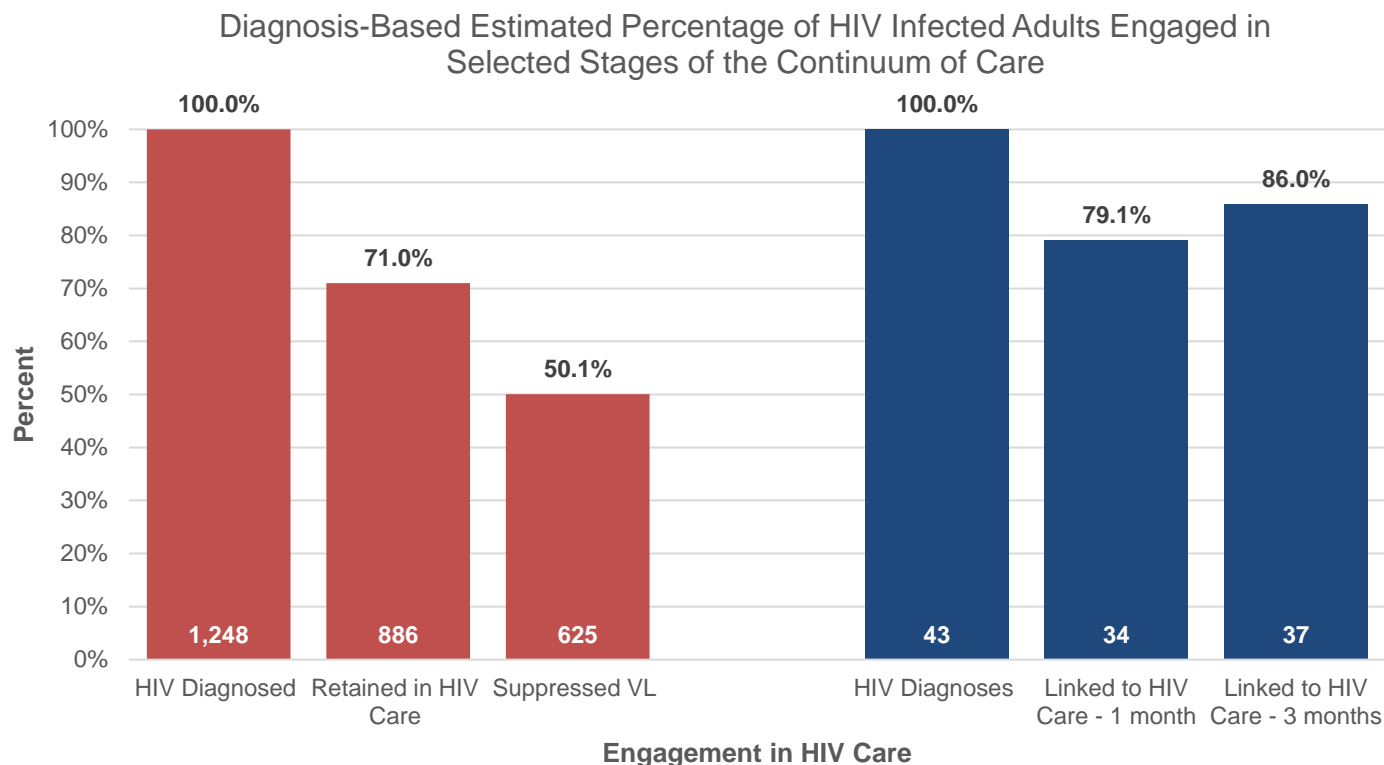
Linked to HIV Care – 3 months: Number of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

¹ Gardner et al, “The Spectrum of Engagement in HIV Care and its Relevance to Test-and-Treat Strategies for Prevention of HIV Infection.” *Clin Infect Dis*. 2011; 52 (6): 793-800.

²Centers for Disease Control and Prevention. Monitoring selected national HIV prevention and care objectives by using HIV surveillance data—United States and 6 dependent areas, 2015. *HIV Surveillance Supplemental Report* 2017;22(No. 2). <http://www.cdc.gov/hiv/library/reports/hiv-surveillance.html>. Published July 2017.

Figure 8 – Diagnosis-Based Estimated Adult/Adolescent 2016 HIV Continuum of Care Cascades, Current Anne Arundel County Residents, Reported through 6/30/2017

The diagnosis-based Anne Arundel County Engagement in HIV Care Cascade (below) uses Maryland surveillance data for current county residents to describe the number and percentage of persons living with HIV in the county on 12/31/2016 and the number and percentage of new HIV diagnoses in 2016 who belong to each of the stages of engagement in HIV care.



Continuum of Care Stage	Living HIV Cases		Continuum of Care Stage	New Diagnoses	
	Number	Percentage		Number	Percentage
HIV Diagnosed	1,248	100.0%	New HIV Diagnoses	43	100.0%
Retained in HIV Care	886	71.0%	Linked to HIV Care – 1 Month	34	79.1%
Suppressed VL	625	50.1%	Linked to HIV Care – 3 Months	37	86.0%

HIV Diagnosed: Adult/adolescent total living HIV cases as of December 31st of the specified year with a recent address in Maryland between 2009 and 2016.

Retained in HIV Care: HIV Diagnosed with a reported CD4 or viral load test result performed during the specified year.

Suppressed Viral Load: HIV Diagnosed with the most recent viral load measured in the specified year of less than 200 copies per milliliter.

New HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Linked to HIV Care – 1 month: Adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month after their initial HIV diagnosis.

Linked to HIV Care – 3 months: Number of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

Section V – Cases by Age

Table 7 – HIV Diagnoses during 2016, Linked to Care, Late Diagnosis, and First CD4 Test Result by Jurisdiction of Residence at HIV Diagnosis, Reported through 6/30/2017

AGE AT HIV DIAGNOSIS	POPULATION	REPORTED HIV DIAGNOSES							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.		%	Median Count
<5 (Pediatric)	34,974	0	0.0%	0.0	--	--	--	--	--
5-12 (Pediatric)	57,065	0	0.0%	0.0	--	--	--	--	--
13-19	48,196	0	0.0%	0.0	--	--	--	--	--
20-29	77,279	19	44.2%	24.6	73.7%	89.5%	21.1%	84.2%	315
30-39	79,789	9	20.9%	11.3	88.9%	88.9%	55.6%	100.0%	166
40-49	74,208	8	18.6%	10.8	87.5%	87.5%	50.0%	87.5%	142
50-59	83,335	5	11.6%	6.0	***	***	***	***	***
60+	113,500	2	4.7%	1.8	***	***	***	***	***
TOTAL	568,346	43	100.0%	7.6	79.1%	86.0%	39.5%	88.4%	259

*** Data withheld due to low population counts and/or case counts

Age at HIV Diagnosis: Age group at time of initial HIV diagnosis.

Population: Population estimate for 7/1/2016.

Reported HIV Diagnoses: Reported HIV diagnoses with an initial HIV diagnosis during the specified year.

Rate: Number of HIV diagnoses divided by the population age 13 years or older and multiplied by 100,000.

Linked to Care: Percent of reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

Late HIV Diagnosis: Percent of reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

First CD4 Test Result Percent: Percent of reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Table 8 – HIV Cases Alive on 12/31/2016, by Age on 12/31/2016, Reported through 6/30/2017

AGE ON 12/31/2016	POPULATION	TOTAL LIVING HIV CASES				
		No.	% of Total	% Living with AIDS	Rate	Ratio (1 in X)
<5	34,974	0	0.0%	0.0%	0.0	--
5-12	57,065	1	0.1%	0.1%	1.8	57,065
13-19	48,196	7	0.5%	0.5%	14.5	6,885
20-29	77,279	158	12.4%	22.8%	204.5	489
30-39	79,789	217	17.0%	41.0%	272.0	367
40-49	74,208	304	23.8%	55.9%	409.7	244
50-59	83,335	393	30.8%	65.6%	471.6	212
60+	113,500	195	15.3%	65.6%	171.8	582
TOTAL	568,346	1,275	100.0%	53.7%	224.3	445

Age on [date]: Age group of living cases on the specified date.

Population: Population estimate for 7/1/2016.

Total Living HIV Cases: Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Percent Living with AIDS: The percent of reported HIV diagnoses with an AIDS diagnosis not reported to have died as of December 31st of the specified year.

Rate: Number of HIV cases divided by the population multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 9 – CD4 Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Age on 12/31/2016, Reported through 6/30/2017

AGE ON 12/31/2016	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Results						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
13-19	1	***	***	***	***	***	***	***
20-29	141	***	***	***	***	***	***	***
30-39	215	139	64.7%	561	13.7%	10.1%	17.3%	59.0%
40-49	303	195	64.4%	623	10.3%	11.8%	14.9%	63.1%
50-59	393	267	67.9%	564	9.7%	13.5%	16.1%	60.7%
60+	195	133	68.2%	578	10.5%	11.3%	15.0%	63.2%
TOTAL	1,248	815	65.3%	585	10.7%	11.9%	15.6%	61.8%

*** Data withheld due to low population counts and/or case counts

Table 10 – Viral Load Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Age on 12/31/2016, Reported through 6/30/2017

AGE ON 12/31/2016	ADULT/ADOLESCENT TOTAL LIVING HIV CASES					
	No.	Recent Viral Load Test Result				Median Unsuppressed
		No. with Test	% with Test	% Suppressed		
13-19	1	***	***	***		***
20-29	141	***	***	***		***
30-39	215	131	60.9%	73.3%		30,903
40-49	303	181	59.7%	82.3%		4,592
50-59	393	259	65.9%	85.7%		2,360
60+	195	123	63.1%	85.4%		1,889
TOTAL	1,248	782	62.7%	79.9%		10,471

*** Data withheld due to low population counts and/or case counts

Age on [date]: Age group of living cases on the specified date.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

CD4 With Test: Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

Median Count: Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of adult/adolescent living HIV cases with a recent CD4 test result distributed by the CD4 count results (cells per microliter).

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

Viral Load With Test: Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.

Percent Suppressed: Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among adult/adolescent total living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Section VI – Adult/Adolescent Cases by Demographics

Table 11 – Adult/Adolescent HIV Diagnoses during 2016, First CD4 Test Result, Percent Linked to Care, and Percent Late Diagnosis, by Sex at Birth, Race/Ethnicity and Country of Birth, Reported through 6/30/2017

SEX AT BIRTH	POPULATION AGE 13+*	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.		%	Median Count
Male	234,350	36	83.7%	15.4	75.0%	83.3%	***	88.9%	238
Female	241,957	7	16.3%	2.9	100.0%	100.0%	***	85.7%	358
TOTAL	476,307	43	100.0%	9.0	79.1%	86.0%	39.5%	88.4%	259

RACE/ETHNICITY	POPULATION AGE 13+*	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.		%	Median Count
Hispanic	31,069	4	9.3%	12.9	***	***	***	***	***
Non-Hispanic	445,238	39	90.7%	8.8	***	***	***	***	***
American Indian/Alaska Native, only	1,280	0	0.0%	0.0	--	--	--	--	--
Asian, only	18,940	0	0.0%	0.0	--	--	--	--	--
Black, only	77,425	19	44.2%	24.5	73.7%	89.5%	31.6%	89.5%	300
Native Hawaiian/ Other Pacific Islander, only	390	0	0.0%	0.0	--	--	--	--	--
White, only	337,840	16	37.2%	4.7	***	***	***	***	***
Multiracial/ Other	9,362	4	9.3%	42.7	***	***	***	***	***
TOTAL	476,307	43	100.0%	9.0	79.1%	86.0%	39.5%	88.4%	259

COUNTRY OF BIRTH	POPULATION AGE 13+*	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.		%	Median Count
United States	420,536	37	86.0%	8.8	***	***	***	***	***
Foreign-born	43,258	4	9.3%	9.2	***	***	***	***	***
Africa	--	1	2.3%	--	***	***	***	***	***
Asia	--	1	2.3%	--	***	***	***	***	***
Caribbean	--	0	0.0%	--	--	--	--	--	--
Central America	--	1	2.3%	--	***	***	***	***	***
Other	--	1	2.3%	--	***	***	***	***	***
Unknown	--	2	4.7%	--	100.0%	100.0%	0.0%	100.0%	569
TOTAL	463,795	43	100.0%	9.3	79.1%	86.0%	39.5%	88.4%	259

* Population data by sex at birth, age, and race/ethnicity are from the 2016 U.S. Census population estimates

** Population data by country of birth are from the 2015 American Community Survey

*** Data withheld due to low population and/or case counts

Population Age 13+: Population greater than or equal to 13 years old, estimate for 7/1/2016.

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Rate: Number of adult/adolescent HIV diagnoses divided by the population age 13 years or older and multiplied by 100,000.

Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

First CD4 Test Result Percent: Percent of adult/adolescent reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Table 12 – Adult/Adolescent Living HIV Cases Alive on 12/31/2016, by Sex at Birth, Race/Ethnicity, and Country of Birth, Reported through 6/30/2017

SEX AT BIRTH	POPULATION AGE 13+	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
		No.	% of Total	% Living with AIDS	Rate	Ratio (1 in X)
Male	234,350	881	70.6%	50.5%	375.9	266
Female	241,957	367	29.4%	60.8%	151.7	659
TOTAL	476,307	1,248	100.0%	53.5%	262.0	381

RACE/ETHNICITY	POPULATION AGE 13+*	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
		No.	% of Total	% Living with AIDS	Rate	Ratio (1 in X)
Hispanic	31,069	102	8.2%	49.0%	328.3	304
Non-Hispanic	445,238	1,146	91.8%	53.9%	257.4	388
American Indian/Alaska Native, only	1,280	0	0.0%	0.0%	0.0	--
Asian, only	18,940	8	0.6%	37.5%	42.2	2,367
Black, only	77,425	683	54.7%	55.9%	882.1	113
Native Hawaiian/ Other Pacific Islander, only	390	0	0.0%	0.0%	0.0	--
White, only	337,840	362	29.0%	50.8%	107.2	933
Multiracial/ Other	9,362	93	7.5%	52.7%	993.4	100
TOTAL	476,307	1,248	100.0%	53.5%	262.0	381

COUNTRY OF BIRTH	POPULATION AGE 13+**	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
		No.	% of Total	% Living with AIDS	Rate	Ratio (1 in X)
United States	420,536	1,108	88.8%	54.2%	263.5	379
Foreign-born	43,258	98	7.9%	57.1%	226.5	441
Africa	--	40	3.2%	57.5%	--	--
Asia	--	11	0.9%	54.5%	--	--
Caribbean	--	6	0.5%	66.7%	--	--
Central America	--	33	2.6%	60.6%	--	--
Other	--	8	0.6%	37.5%	--	--
Unknown	--	42	3.4%	28.6%	--	--
TOTAL	463,795	1,248	100.0%	53.5%	269.1	371

* Population data by sex at birth, age, and race/ethnicity are from the 2016 U.S. Census population estimates

** Population data by country of birth are from the 2015 American Community Survey

Population Age 13+: Population greater than or equal to 13 years old, estimate for 7/1/2016.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Percent Living with AIDS: The percent of reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Rate: Number of adult/adolescent cases divided by the population age 13 years or older multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 13 – CD4 Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Sex at Birth, Race/Ethnicity and Country of Birth, Reported through 6/30/2017

SEX AT BIRTH	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Male	881	564	64.0%	582	10.1%	12.2%	15.8%	61.9%
Female	367	251	68.4%	605	12.0%	11.2%	15.1%	61.8%
TOTAL	1,248	815	65.3%	585	10.7%	11.9%	15.6%	61.8%

RACE/ETHNICITY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Hispanic	102	72	70.6%	629	4.2%	11.1%	12.5%	72.2%
Non-Hispanic	1,146	743	64.8%	575	11.3%	12.0%	15.9%	60.8%
American Indian/Alaska Native, only	0	--	--	--	--	--	--	--
Asian, only	8	***	***	***	***	***	***	***
Black, only	683	448	65.6%	579	11.6%	12.1%	14.1%	62.3%
Native Hawaiian/Other Pacific Islander, only	0	--	--	--	--	--	--	--
White, only	362	234	64.6%	588	10.3%	12.8%	16.2%	60.7%
Multiracial/Other	93	***	***	***	***	***	***	***
TOTAL	1,248	815	65.3%	585	10.7%	11.9%	15.6%	61.8%

COUNTRY OF BIRTH	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
United States	1,108	726	65.5%	584	10.7%	12.3%	15.2%	61.8%
Foreign-born	98	63	64.3%	563	9.5%	11.1%	22.2%	57.1%
Africa	40	24	60.0%	486	8.3%	25.0%	20.8%	45.8%
Asia	11	***	***	***	***	***	***	***
Caribbean	6	***	***	***	***	***	***	***
Central America	33	22	66.7%	612	9.1%	0.0%	18.2%	72.7%
Other	8	6	75.0%	819	16.7%	0.0%	16.7%	66.7%
Unknown	42	26	61.9%	730	11.5%	3.8%	11.5%	73.1%
TOTAL	1,248	815	65.3%	585	10.7%	11.9%	15.6%	61.8%

*** Data withheld due to low population and/or case counts

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

With Test: Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

Median Count: Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of adult/adolescent living HIV cases with a recent CD4 test result distributed by the CD4 count results (cells per microliter).

Table 14 – Viral Load Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Sex at Birth, Race/Ethnicity and Country of Birth, Reported through 6/30/2017

SEX AT BIRTH	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Male	881	542	61.5%	81.5%	5,023
Female	367	240	65.4%	76.3%	15,140
TOTAL	1,248	782	62.7%	79.9%	10,471

RACE/ETHNICITY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Hispanic	102	72	70.6%	86.1%	26,015
Non-Hispanic	1,146	710	62.0%	79.3%	9,914
American Indian/Alaska Native, only	0	--	--	--	--
Asian, only	8	***	***	***	***
Black, only	683	430	63.0%	77.2%	5,989
Native Hawaiian/Other Pacific Islander, only	0	--	--	--	--
White, only	362	224	61.9%	82.1%	27,119
Multiracial/Other	93	***	***	***	***
TOTAL	1,248	782	62.7%	79.9%	10,471

COUNTRY OF BIRTH	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
United States	1,108	692	62.5%	79.3%	10,650
Foreign-born	98	62	63.3%	88.7%	2,150
Africa	40	22	55.0%	86.4%	661
Asia	11	***	***	***	***
Caribbean	6	***	***	***	***
Central America	33	22	66.7%	90.9%	66,988
Other	8	6	75.0%	100.0%	--
Unknown	42	28	66.7%	75.0%	4,918
TOTAL	1,248	782	62.7%	79.9%	10,471

*** Data withheld due to low population and/or case counts

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

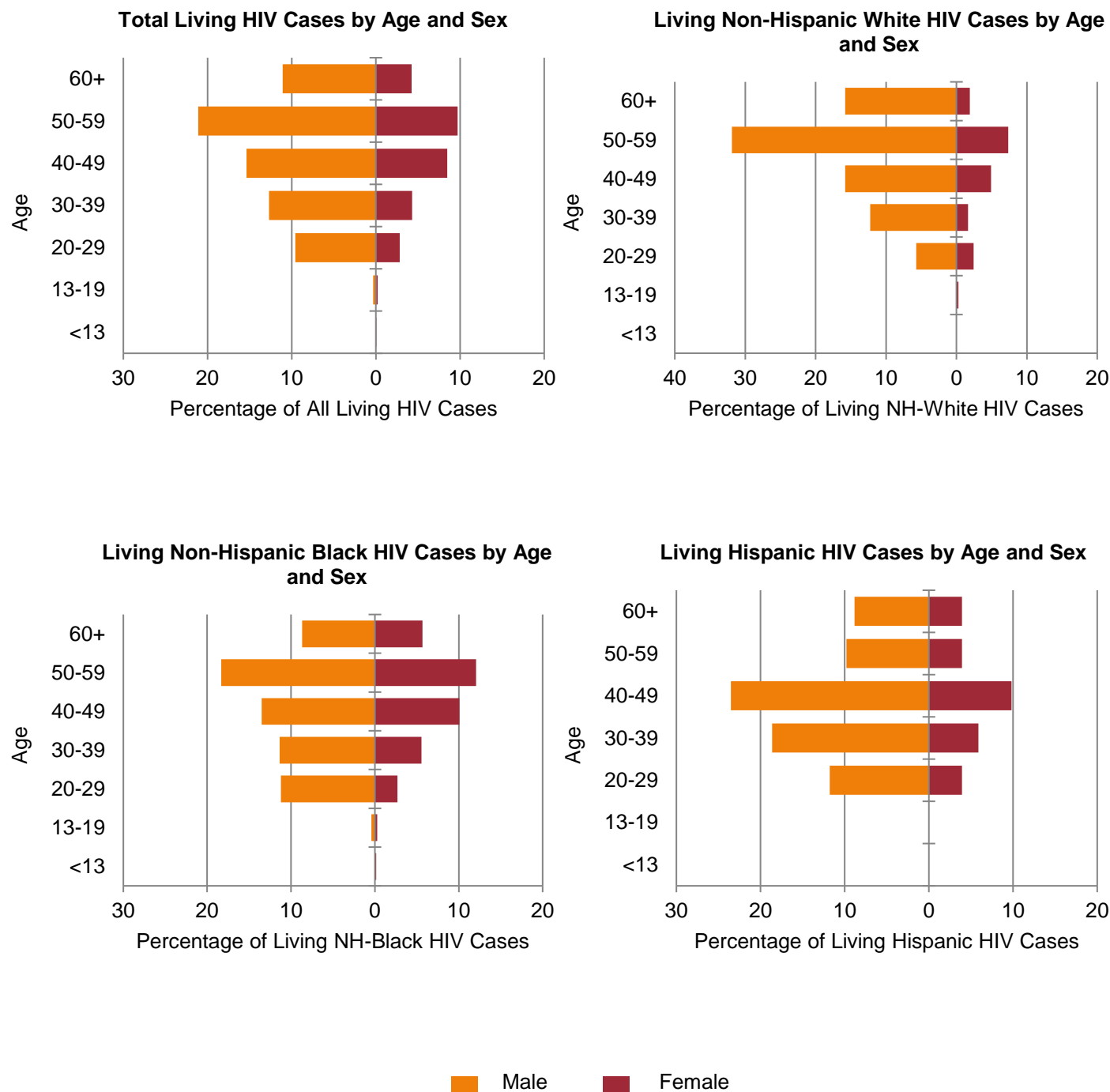
With Test: Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.

Percent Suppressed: Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among adult/adolescent total living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Section VII – HIV Cases by Expanded Demographics

Figure 9 – Population Pyramids of Total Living HIV Cases by Current Age, Sex at Birth, and Race/Ethnicity, Alive on 12/31/2016 and Reported through 6/30/2017



Total Living HIV Cases: Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Table 15 – Total Living Male HIV Cases by Current Age and Race/Ethnicity, Alive on 12/31/2016 and Reported through 6/30/2017

TOTAL LIVING MALE HIV CASES						
AGE ON 12/31/2016		RACE/ETHNICITY				TOTAL MALES BY AGE GROUP
		Hispanic	Non- Hispanic Black, only	Non- Hispanic White, only	Non- Hispanic Other Race	
<13 (Pediatric)	Population	5,997	8,458	27,963	4,540	46,958
	Cases	0	0	0	0	0
	Rate	0.0	0.0	0.0	0.0	0.0
	Ratio (1 in X)	--	--	--	--	--
13-19	Population	2,350	4,631	15,958	2,106	25,045
	Cases	0	3	0	1	4
	Rate	0.0	64.8	0.0	47.5	16.0
	Ratio (1 in X)	--	1,543	--	2,106	6,261
20-29	Population	3,727	7,491	26,716	3,021	40,955
	Cases	12	79	21	10	122
	Rate	322.0	1,054.6	78.6	331.0	297.9
	Ratio (1 in X)	310	94	1,272	302	335
30-39	Population	4,396	7,214	25,609	2,774	39,993
	Cases	19	80	45	18	162
	Rate	432.2	1,109.0	175.7	648.9	405.1
	Ratio (1 in X)	231	90	569	154	246
40-49	Population	2,909	6,523	24,821	2,207	36,460
	Cases	24	95	58	19	196
	Rate	825.0	1,456.4	233.7	860.9	537.6
	Ratio (1 in X)	121	68	427	116	186
50-59	Population	1,575	5,948	31,143	1,772	40,438
	Cases	10	129	117	13	269
	Rate	634.9	2,168.8	375.7	733.6	665.2
	Ratio (1 in X)	157	46	266	136	150
60+	Population	1,127	5,665	42,701	1,966	51,459
	Cases	9	61	58	13	141
	Rate	798.6	1,076.8	135.8	661.2	274.0
	Ratio (1 in X)	125	92	736	151	364
TOTAL MALES BY RACE/ETHNICITY	Population	22,081	45,930	194,911	18,386	281,308
	Cases	74	447	299	74	894
	Rate	335.1	973.2	153.4	402.5	317.8
	Ratio (1 in X)	298	102	651	248	314

Age on [date]: Age group of living cases on the specified date.

Total Living Male HIV Cases: Reported HIV diagnoses with Male sex at birth with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Population: Population estimate for 7/1/2016.

Rate: Number of cases divided by the population multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 16 – Total Living Female HIV Cases by Current Age and Race/Ethnicity, Alive on 12/31/2016 and Reported through 6/30/2017

TOTAL LIVING FEMALE HIV CASES						
AGE ON 12/31/2016		RACE/ETHNICITY				TOTAL FEMALES BY AGE GROUP
		Hispanic	Non- Hispanic Black, only	Non- Hispanic White, only	Non- Hispanic Other Race	
<13 (Pediatric)	Population	5,736	8,087	26,727	4,531	45,081
	Cases	0	1	0	0	1
	Rate	0.0	12.4	0.0	0.0	2.2
	Ratio (1 in X)	--	8,087	--	--	45,081
13-19	Population	2,190	4,273	14,584	2,104	23,151
	Cases	0	2	1	0	3
	Rate	0.0	46.8	6.9	0.0	13.0
	Ratio (1 in X)	--	2,136	14,584	--	7,717
20-29	Population	3,287	6,538	23,353	3,146	36,324
	Cases	4	19	9	4	36
	Rate	121.7	290.6	38.5	127.1	99.1
	Ratio (1 in X)	821	344	2,594	786	1,009
30-39	Population	3,800	7,659	25,152	3,185	39,796
	Cases	6	39	6	4	55
	Rate	157.9	509.2	23.9	125.6	138.2
	Ratio (1 in X)	633	196	4,192	796	723
40-49	Population	2,725	7,027	25,417	2,579	37,748
	Cases	10	71	18	9	108
	Rate	367.0	1,010.4	70.8	349.0	286.1
	Ratio (1 in X)	272	98	1,412	286	349
50-59	Population	1,571	6,729	32,213	2,384	42,897
	Cases	4	85	27	8	124
	Rate	254.6	1,263.2	83.8	335.6	289.1
	Ratio (1 in X)	392	79	1,193	298	345
60+	Population	1,412	7,726	50,174	2,729	62,041
	Cases	4	40	7	3	54
	Rate	283.3	517.7	14.0	109.9	87.0
	Ratio (1 in X)	353	193	7,167	909	1,148
TOTAL FEMALES BY RACE/ETHNICITY	Population	20,721	48,039	197,620	20,658	287,038
	Cases	28	257	68	28	381
	Rate	135.1	535.0	34.4	135.5	132.7
	Ratio (1 in X)	740	186	2,906	737	753

Age on [date]: Age group of living cases on the specified date.

Total Living Female HIV Cases: Reported HIV diagnoses with Female sex at birth with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

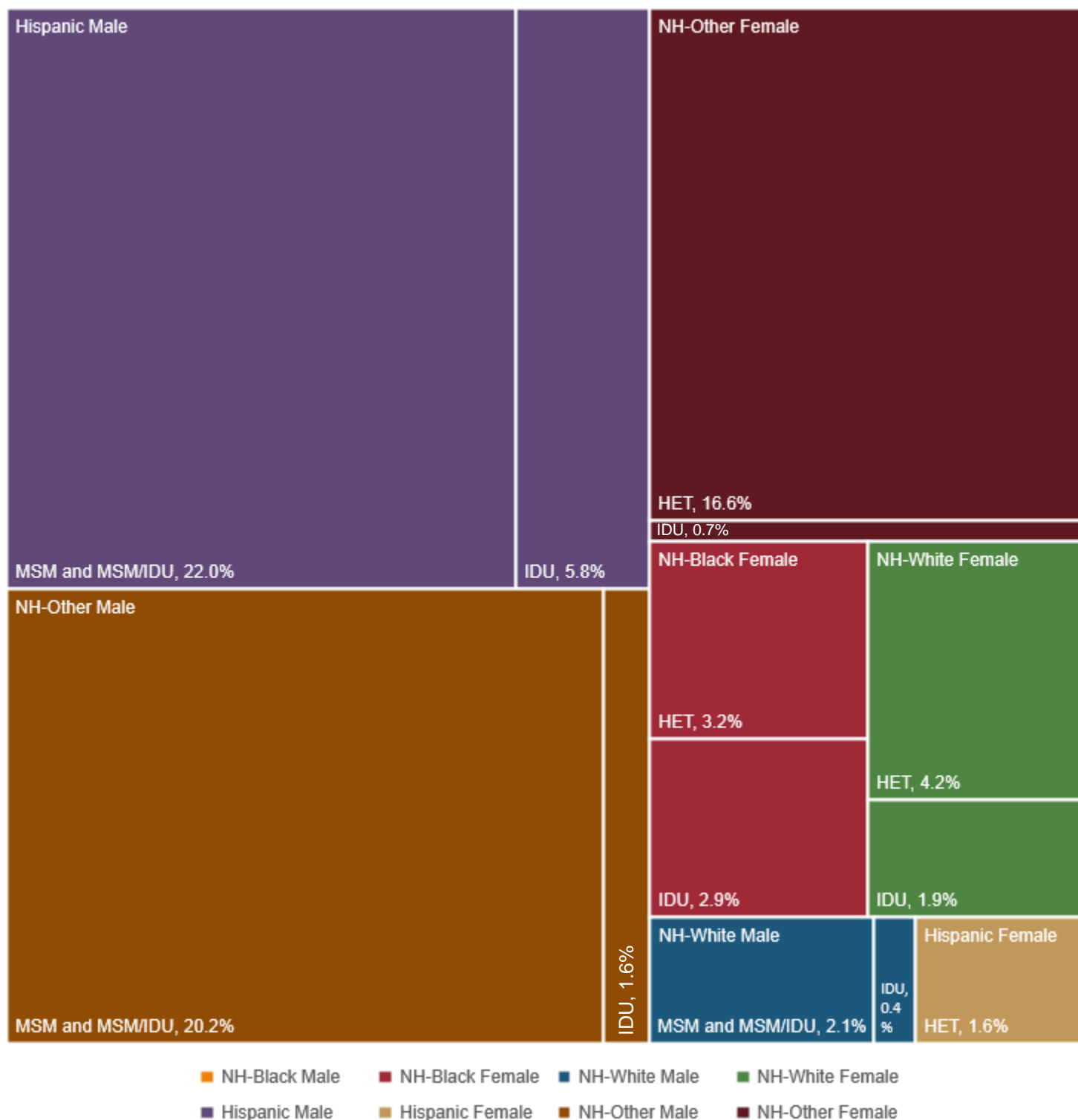
Population: Population estimate for 7/1/2016.

Rate: Number of cases divided by the population multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Section VIII – HIV Exposure Category

Figure 10 – Proportion of Adult/Adolescent Total Living HIV Cases, by Estimated Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on 12/31/2016, Reported through 6/30/2017



Other exposure category not shown (1.4%)

Multiple imputation was used to estimate and adjust for missing transmission category

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Men who have Sex with Men (MSM): Men who report a history of sexual contact with other men (homosexual contact) including men who report sexual contact with both men and women (bisexual contact).

Injection Drug Use (IDU): Men or women who report receiving an injection, either self-administered or given by another person, of a drug that was not prescribed by a physician.

MSM/IDU: Men who report a history of sexual contact with other men who also have engaged in injection drug use.

Heterosexual Exposure (HET): Men or women who report a history of sexual contact with a person of the opposite sex who is known to have an HIV infection or at high risk for an HIV infection. High risk groups include bisexual men, IDUs and recipients of blood, blood components, transplants of organ or tissue and artificial insemination.

Table 17 – Adult/Adolescent HIV Diagnoses during 2016, Linked to Care, Late Diagnosis, and First CD4 Test Result, by Exposure Category and Sex at Birth, Reported through 6/30/2017

EXPOSURE CATEGORY**	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES						
	No.	% of Total	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
			% 1 mo.	% 3 mo.	%	%	Median Count
With Exposure	27	100.0%	88.9%	88.9%	33.3%	100.0%	312
Men who have Sex with Men (MSM)	14	51.9%	78.6%	78.6%	35.7%	100.0%	295
Injection Drug Users (IDU)	0	0.0%	--	--	--	--	--
Men who have Sex with Men and Inject Drugs (MSM/IDU)	2	7.4%	***	***	***	***	***
Heterosexual Exposure (HET)	11	40.7%	***	***	***	***	***
Other Exposure	0	0.0%	--	--	--	--	--
No Reported Exposure	16		62.5%	81.3%	50.0%	68.8%	50
TOTAL	43		79.1%	86.0%	39.5%	88.4%	259

MALE EXPOSURE CATEGORY**	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES						
	No.	% of Total	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
			% 1 mo.	% 3 mo.	%	%	Median Count
With Exposure	23	100.0%	87.0%	87.0%	39.1%	100.0%	278
Men who have Sex with Men (MSM)	14	60.9%	78.6%	78.6%	35.7%	100.0%	295
Injection Drug Users (IDU)	0	0.0%	--	--	--	--	--
Men who have Sex with Men and Inject Drugs (MSM/IDU)	2	8.7%	***	***	***	***	***
Heterosexual Exposure (HET)	7	30.4%	***	***	***	***	***
Other Exposure	0	0.0%	--	--	--	--	--
No Reported Exposure	13		53.8%	76.9%	46.2%	69.2%	54
TOTAL	36		75.0%	83.3%	41.7%	88.9%	238

FEMALE EXPOSURE CATEGORY**	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES						
	No.	% of Total	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
			% 1 mo.	% 3 mo.	%	%	Median Count
With Exposure	4	100.0%	100.0%	100.0%	0.0%	100.0%	561
Injection Drug Users (IDU)	***	***	***	***	***	***	***
Heterosexual Exposure (HET)	***	***	***	***	***	***	***
Other Exposure	0	0.0%	--	--	--	--	--
No Reported Exposure	3		***	***	***	***	***
TOTAL	7		100.0%	100.0%	28.6%	85.7%	358

** 2016 reported HIV exposure data are preliminary.

*** Data withheld due to low population and/or case counts

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

First CD4 Test Result Percent: Percent of adult/adolescent reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Table 18 – Adult/Adolescent Living HIV Cases Alive on 12/31/2016, by Exposure Category and Sex at Birth, Reported through 6/30/2017

EXPOSURE CATEGORY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES		
	No.	% of Total with Exposure	% Living with AIDS
With Exposure	1,073	100.0%	55.7%
Men who have Sex with Men (MSM)	517	48.2%	44.1%
Injection Drug Users (IDU)	147	13.7%	73.5%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	43	4.0%	51.2%
Heterosexual Exposure (HET)	360	33.6%	65.0%
Other Exposures	6	0.6%	100.0%
No Reported Exposure*	175		40.0%
TOTAL	1,248		53.5%

MALE EXPOSURE CATEGORY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES		
	No.	% of Total with Exposure	% Living with AIDS
With Exposure	776	100.0%	52.1%
Men who have Sex with Men (MSM)	517	66.6%	44.1%
Injection Drug Users (IDU)	89	11.5%	77.5%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	43	5.5%	51.2%
Heterosexual Exposure (HET)	125	16.1%	66.4%
Other Exposures	2	0.3%	100.0%
No Reported Exposure	105		39.0%
TOTAL	881		50.5%

FEMALE EXPOSURE CATEGORY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES		
	No.	% of Total with Exposure	% Living with AIDS
With Exposure	297	100.0%	65.3%
Injection Drug Users (IDU)	58	19.5%	67.2%
Heterosexual Exposure (HET)	235	79.1%	64.3%
Other Exposures	4	1.3%	100.0%
No Reported Exposure*	70		41.4%
TOTAL	367		60.8%

* Includes 2 living HIV cases with Presumed Female Heterosexual exposure

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Percent Living with AIDS: The percent of reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Table 19 – Adult/Adolescent Total Living HIV Cases by Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on 12/31/2016 and Reported through 6/30/2017

Exposure Category	Adult/Adolescent Total Living HIV Cases					
	Race/Ethnicity					
	Hispanic		Non-Hispanic, Black, only		Non-Hispanic, White, only	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	93	100.0%	571	100.0%	317	100.0%
Men who have Sex with Men (MSM)	50	53.8%	215	37.7%	209	65.9%
Injection Drug Users (IDU)	***	***	89	15.6%	38	12.0%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	***	***	19	3.3%	16	5.0%
Heterosexual Exposure (HET)	36	38.7%	246	43.1%	50	15.8%
Other Exposures	0	0.0%	2	0.4%	4	1.3%
No Reported Exposure*	9		112		45	
TOTAL	102		683		362	

Male Exposure Category	Adult/Adolescent Total Living HIV Cases					
	Race/Ethnicity					
	Hispanic		Non-Hispanic, Black, only		Non-Hispanic, White, only	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	68	100.0%	376	100.0%	264	100.0%
Men who have Sex with Men (MSM)	50	73.5%	215	57.2%	209	79.2%
Injection Drug Users (IDU)	***	***	61	16.2%	18	6.8%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	***	***	19	5.1%	16	6.1%
Heterosexual Exposure (HET)	14	20.6%	81	21.5%	19	7.2%
Other Exposures	0	0.0%	0	0.0%	2	0.8%
No Reported Exposure	6		62		32	
TOTAL	74		438		296	

FEMALE EXPOSURE CATEGORY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES					
	Race/Ethnicity					
	Hispanic		Non-Hispanic, Black, only		Non-Hispanic, White, only	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
With Exposure	25	100.0%	195	100.0%	53	100.0%
Injection Drug Users (IDU)	***	***	28	14.4%	20	37.7%
Heterosexual Exposure (HET)	***	***	165	84.6%	31	58.5%
Other Exposures	0	0.0%	2	1.0%	2	3.8%
No Reported Exposure*	3		50		13	
TOTAL	28		245		66	

* Includes 2 non-Hispanic black cases with Presumed Female Heterosexual exposure

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Table 20 – CD4 Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Exposure Category, Reported through 6/30/2017

EXPOSURE CATEGORY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Results						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
With Exposure	1,073	722	67.3%	586	9.7%	12.6%	16.2%	61.5%
Men who have Sex with Men (MSM)	517	336	65.0%	610	7.7%	9.8%	16.7%	65.8%
Injection Drug Users (IDU)	147	100	68.0%	530	15.0%	13.0%	15.0%	57.0%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	43	29	67.4%	620	3.4%	27.6%	10.3%	58.6%
Heterosexual Exposure (HET)	360	252	70.0%	554	10.7%	13.9%	17.1%	58.3%
Other Exposures	6	5	83.3%	340	20.0%	40.0%	0.0%	40.0%
No Reported Exposure*	175	93	53.1%	583	18.3%	6.5%	10.8%	64.5%
TOTAL	1,248	815	65.3%	585	10.7%	11.9%	15.6%	61.8%

* Includes 2 cases with Presumed Female Heterosexual exposure

Table 21 – Viral Load Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Exposure Category, Reported through 6/30/2017

EXPOSURE CATEGORY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES					
	No.	Recent Viral Load Test Results				Median Count
		No. with Test	% with Test	% Suppressed		
With Exposure	1,073	692	64.5%	80.6%		10,080
Men who have Sex with Men (MSM)	517	321	62.1%	82.2%		4,450
Injection Drug Users (IDU)	147	97	66.0%	72.2%		16,800
Men who have Sex with Men and Inject Drugs (MSM/IDU)	43	26	60.5%	84.6%		7,905
Heterosexual Exposure (HET)	360	243	67.5%	81.9%		7,210
Other Exposures	6	5	83.3%	60.0%		37,900
No Reported Exposure*	175	90	51.4%	74.4%		11,540
TOTAL	1,248	782	62.7%	79.9%		10,471

* Includes 2 cases with Presumed Female Heterosexual exposure

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

CD4 With Test: Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

Median Count: Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of adult/adolescent living HIV cases with a recent CD4 test result distributed by the CD4 count results (cells per microliter).

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

Viral Load With Test: Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.

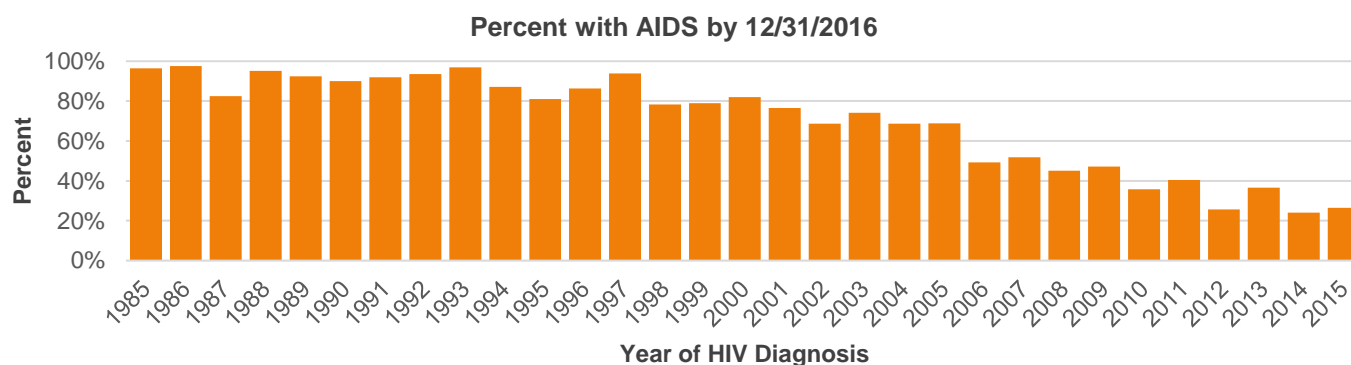
Percent Suppressed: Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among adult/adolescent total living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Section IX – Disease Progression and Mortality

Figure 11 – Trends in Disease Progression by Year of HIV Diagnosis, 1985-2015, Reported through 6/30/2017

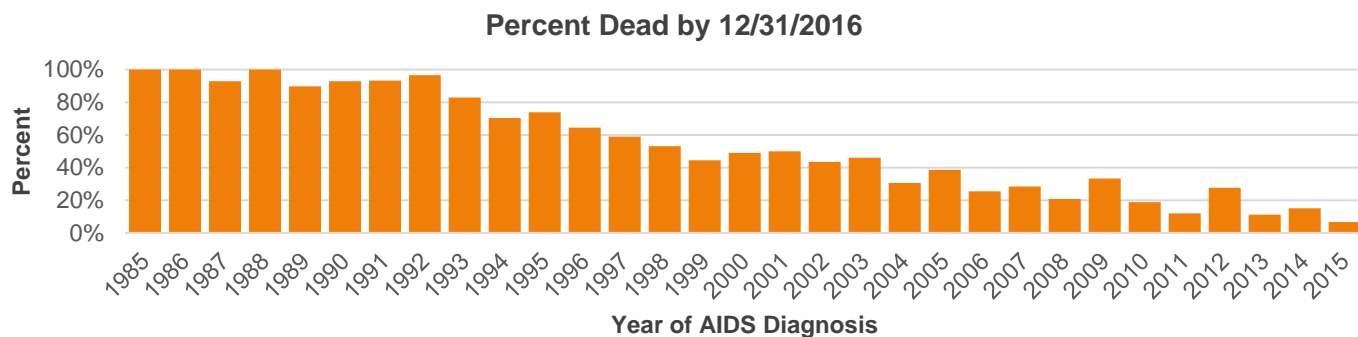
Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis by 12/31/2015 (Adult/Adolescent Reported HIV Diagnoses), Number of Adult/Adolescent Reported HIV Cases with an AIDS Diagnosis by 12/31/2016 (Reported AIDS Diagnoses), Percent by Year of HIV Diagnosis of Adult/Adolescent Reported HIV Diagnoses with a Reported AIDS Diagnosis by 12/31/2016, the Average Years from HIV Diagnosis to AIDS Diagnosis for Cases with an AIDS Diagnosis, and the Percent by Year of HIV Diagnosis of Reported Adult/Adolescent HIV Diagnoses with a Reported AIDS Diagnosis at 1 Year, 2 Years, 5 Years, and 10 Years after HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2015, as Reported by Name through 6/30/2017



YEAR OF HIV DIAGNOSIS	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES							
	No.	Reported AIDS Diagnoses			Percent with AIDS by Years After HIV Diagnosis			
		No.	% with AIDS	Mean Years from HIV to AIDS	1 Year	2 Years	5 Years	10 Years
<1985	12	12	100.0%	6.8	41.7%	41.7%	41.7%	75.0%
1985	28	27	96.4%	5.3	46.4%	46.4%	53.6%	85.7%
1986	41	40	97.6%	3.8	39.0%	39.0%	56.1%	97.6%
1987	51	42	82.4%	4.8	31.4%	35.3%	43.1%	72.5%
1988	61	58	95.1%	4.5	36.1%	41.0%	62.3%	83.6%
1989	67	62	92.5%	3.2	49.3%	55.2%	68.7%	83.6%
1990	71	64	90.1%	3.3	43.7%	49.3%	67.6%	85.9%
1991	75	69	92.0%	2.9	44.0%	53.3%	77.3%	88.0%
1992	77	72	93.5%	3.0	54.5%	61.0%	76.6%	83.1%
1993	67	65	97.0%	2.4	56.7%	61.2%	76.1%	97.0%
1994	62	54	87.1%	2.5	54.8%	64.5%	72.6%	79.0%
1995	63	51	81.0%	1.7	58.7%	65.1%	71.4%	76.2%
1996	66	57	86.4%	1.8	68.2%	72.7%	74.2%	81.8%
1997	48	45	93.8%	1.5	62.5%	70.8%	83.3%	93.8%
1998	69	54	78.3%	1.8	55.1%	58.0%	66.7%	75.4%
1999	57	45	78.9%	2.4	57.9%	57.9%	63.2%	73.7%
2000	61	50	82.0%	1.4	67.2%	68.9%	73.8%	78.7%
2001	68	52	76.5%	1.5	55.9%	61.8%	69.1%	73.5%
2002	67	46	68.7%	2.1	46.3%	50.7%	58.2%	64.2%
2003	66	49	74.2%	1.7	53.0%	57.6%	65.2%	71.2%
2004	67	46	68.7%	1.7	50.7%	52.2%	58.2%	65.7%
2005	61	42	68.9%	1.3	52.5%	57.4%	62.3%	68.9%
2006	71	35	49.3%	1.1	38.0%	38.0%	45.1%	49.3%
2007	81	42	51.9%	1.3	34.6%	37.0%	48.1%	--
2008	91	41	45.1%	1.2	34.1%	37.4%	40.7%	--
2009	70	33	47.1%	1.1	34.3%	38.6%	44.3%	--
2010	70	25	35.7%	0.7	30.0%	30.0%	35.7%	--
2011	57	23	40.4%	0.2	40.4%	40.4%	--	--
2012	39	10	25.6%	1.0	17.9%	20.5%	--	--
2013	52	19	36.5%	0.4	32.7%	32.7%	--	--
2014	54	13	24.1%	0.8	16.7%	20.4%	--	--
2015	49	13	26.5%	0.1	26.5%	--	--	--
TOTAL	1,939	1,356	69.9%	2.3	45.2%	49.0%	57.7%	66.6%

Figure 12 – Trends in Survival Times by Year of AIDS Diagnosis, 1985-2015, Reported through 6/30/2017

Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with an AIDS Diagnosis by 12/31/15 (Adult/Adolescent Reported AIDS Diagnoses), Number of Adult/Adolescent Reported AIDS Diagnosis Reported to Have Died of Any Cause by 12/31/2016 (Reported AIDS Deaths), Percent by Year of AIDS Diagnosis of Adult/Adolescent Reported AIDS Diagnoses with a Reported AIDS Death (Percent Dead) by 12/31/2016, the Average Years from AIDS Diagnosis to Death for Cases that have Died, and the Percent by Year of AIDS Diagnosis of Adult/Adolescent Reported AIDS Diagnoses Not Reported to Have Died (Percent Alive) at 1 Year, 2 Years, 5 Years, and 10 Years after AIDS Diagnosis, by Year of AIDS Diagnosis from 1985 through 2015, as Reported by Name through 6/30/2017



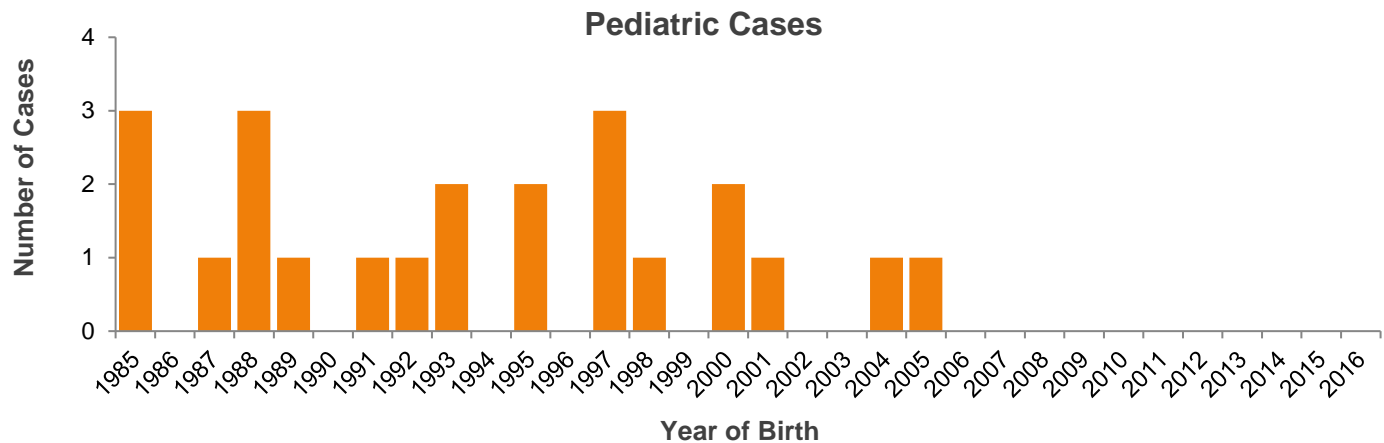
YEAR OF AIDS DIAGNOSIS	ADULT/ADOLESCENT REPORTED AIDS DIAGNOSES							
	No.	Reported AIDS Deaths			Percent Alive by Years After AIDS Diagnosis			
		No.	% Dead	Mean Years from AIDS to Death	1 Year	2 Years	5 Years	10 Years
<1985	5	5	100.0%	0.6	20.0%	20.0%	0.0%	0.0%
1985	12	12	100.0%	2.7	41.7%	16.7%	8.3%	8.3%
1986	15	15	100.0%	3.5	80.0%	53.3%	13.3%	6.7%
1987	14	13	92.9%	1.5	50.0%	21.4%	14.3%	7.1%
1988	26	26	100.0%	2.6	50.0%	34.6%	15.4%	3.8%
1989	29	26	89.7%	2.5	62.1%	48.3%	13.8%	13.8%
1990	42	39	92.9%	2.3	73.8%	42.9%	16.7%	9.5%
1991	45	42	93.3%	3.0	77.8%	53.3%	24.4%	13.3%
1992	58	56	96.6%	3.0	74.1%	46.6%	13.8%	12.1%
1993	76	63	82.9%	3.1	73.7%	51.3%	28.9%	25.0%
1994	54	38	70.4%	4.1	79.6%	64.8%	42.6%	40.7%
1995	65	48	73.8%	4.5	76.9%	63.1%	47.7%	38.5%
1996	59	38	64.4%	4.5	79.7%	69.5%	59.3%	44.1%
1997	39	23	59.0%	6.8	84.6%	82.1%	69.2%	61.5%
1998	49	26	53.1%	6.0	87.8%	85.7%	75.5%	59.2%
1999	45	20	44.4%	6.5	91.1%	84.4%	80.0%	66.7%
2000	47	23	48.9%	6.4	91.5%	87.2%	78.7%	66.0%
2001	52	26	50.0%	4.9	84.6%	76.9%	69.2%	57.7%
2002	46	20	43.5%	3.9	84.8%	80.4%	69.6%	60.9%
2003	50	23	46.0%	3.3	84.0%	78.0%	66.0%	56.0%
2004	59	18	30.5%	4.6	89.8%	89.8%	81.4%	76.3%
2005	44	17	38.6%	3.4	86.4%	81.8%	75.0%	63.6%
2006	47	12	25.5%	2.6	91.5%	87.2%	78.7%	74.5%
2007	46	13	28.3%	3.9	93.5%	89.1%	84.8%	--
2008	53	11	20.8%	1.8	86.8%	86.8%	83.0%	--
2009	45	15	33.3%	2.9	86.7%	84.4%	77.8%	--
2010	32	6	18.8%	1.9	90.6%	87.5%	81.3%	--
2011	42	5	11.9%	2.7	97.6%	97.6%	--	--
2012	29	8	27.6%	2.1	93.1%	89.7%	--	--
2013	36	4	11.1%	1.0	94.4%	88.9%	--	--
2014	20	3	15.0%	1.2	90.0%	90.0%	--	--
2015*	30	2	6.7%	0.2	93.3%	--	--	--
TOTAL	1,311	696	53.1%	3.7	82.8%	73.2%	59.9%	52.7%

*2015 AIDS deaths are preliminary.

Section X – Pediatric Cases

Figure 13 – Trends in Pediatric HIV Cases, 1985-2016, Reported through 6/30/2017

Number of Pediatric Reported HIV Cases, Age <13 at HIV Diagnosis, with or without an AIDS Diagnosis (Pediatric Reported HIV Diagnoses) by Year of Birth, by Year of HIV Diagnosis, by Year of AIDS Diagnosis, and by Year of Death Due to Any Cause, and Number of Pediatric Reported HIV Cases, Age <13 at HIV Diagnosis, with or without an AIDS Diagnosis and Not Reported to have Died as of December 31st of Each Year (Pediatric Total Living HIV Cases) from 1985 through 2016, as Reported by Name through 6/30/2017



YEAR	PEDIATRIC REPORTED HIV DIAGNOSES			PEDIATRIC TOTAL LIVING HIV CASES	
	No. by Year of Birth	No. by Year of HIV Diagnosis	No. by Year of AIDS Diagnosis	No. by Year of Death	No. Alive on 12/31 of Each Year
<1985	6	0	0	0	--
1985	3	2	1	0	1
1986	0	1	1	1	1
1987	1	2	1	0	3
1988	3	3	1	0	6
1989	1	1	1	0	7
1990	0	3	0	1	9
1991	1	0	2	0	8
1992	1	0	1	0	8
1993	2	4	1	0	13
1994	0	0	1	0	13
1995	2	2	1	2	12
1996	0	2	1	0	13
1997	3	2	2	0	15
1998	1	0	1	0	15
1999	0	1	1	1	15
2000	2	0	0	0	15
2001	1	0	1	0	14
2002	0	0	0	0	14
2003	0	0	0	0	14
2004	1	0	0	0	14
2005	1	0	0	0	14
2006	0	1	1	0	16
2007	0	5	0	0	21
2008	0	0	0	0	22
2009	0	0	0	0	22
2010	0	0	0	0	22
2011	0	0	0	1	22
2012	0	0	1	0	21
2013	0	0	0	0	21
2014	0	0	1	0	21
2015	0	0	0	1	21
2016	0	0	0	0	21
TOTAL	29	29	20	7	--

Table 22 – Pediatric HIV Total Living HIV Cases, Diagnosed in Maryland, Alive on 12/31/2016, by Jurisdiction, Reported through 6/30/2017

JURISDICTION OF RESIDENCE AT DIAGNOSIS	PEDIATRIC TOTAL LIVING HIV CASES	
	No.	% of Total
20711	1	4.8%
20724	1	4.8%
21032	1	4.8%
21060	2	9.5%
21061	1	4.8%
21076	1	4.8%
21108	2	9.5%
21113	2	9.5%
21122	3	14.3%
21144	4	19.0%
21401	2	9.5%
21403	1	4.8%
TOTAL	21	100.0%

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at later time of initial HIV diagnosis or initial AIDS diagnosis.

Pediatric Total Living HIV Cases: Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Table 23 – Pediatric Total Living HIV Cases, Diagnosed in Maryland, by Sex at Birth and Race/Ethnicity, Alive on 12/31/2016 and Reported through 6/30/2017

SEX AT BIRTH	PEDIATRIC TOTAL LIVING HIV CASES	
	No.	% of Total
Male	9	42.9%
Female	12	57.1%
TOTAL	21	100.0%

RACE/ETHNICITY	PEDIATRIC TOTAL LIVING HIV CASES	
	No.	% of Total
Hispanic	0	0.0%
Non-Hispanic	21	100.0%
American Indian/ Alaska Native, only	0	0.0%
Asian, only	0	0.0%
Black, only	16	76.2%
Native Hawaiian/Other Pacific Islander, only	0	0.0%
White, only	5	23.8%
Multiracial/Other	0	0.0%
TOTAL	21	100.0%

Pediatric Total Living HIV Cases: Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Glossary of Terms

Adult/Adolescent Living HIV Cases with AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Living HIV Cases without AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Reported AIDS Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Age at AIDS Diagnosis: Age group at time of initial AIDS diagnosis.

Age at HIV Diagnosis: Age group at time of initial HIV diagnosis.

Age on [date]: Age group of living cases on the specified date.

AIDS Deaths: Reported HIV diagnoses with an AIDS diagnosis that have died due to any cause.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

CD4 With Test: Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

Corrections: Residence in a state or federal prison. Does not include local jails and detention centers.

Current Residence: Jurisdiction of residence from the most recent report since 1/1/2009.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

First CD4 Test Result Percent: Percent of adult/adolescent reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

Jurisdiction of Current Residence: Jurisdiction of residence from the most recent report since 1/1/2009.

Jurisdiction of Residence: Jurisdiction of residence at diagnosis or current residence.

Jurisdiction of Residence at AIDS Diagnosis: Jurisdiction of residence at time of initial AIDS diagnosis.

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at the later time of initial HIV diagnosis or time of initial AIDS diagnosis.

Jurisdiction of Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

Living HIV Cases with AIDS: Reported HIV diagnoses with an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Living HIV Cases without AIDS: Reported HIV diagnoses without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Mean Years from HIV Diagnosis: Mean or average number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

Mean Years from AIDS diagnosis to AIDS Death: Mean or average number of years from initial AIDS diagnosis to death for adult/adolescent reported AIDS diagnoses with a reported death.

Median Count: Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Pediatric Total Living HIV Cases: Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Percent Change: The percent change in number of adult/adolescent total living HIV cases from residence at diagnosis to current residence.

Percent Alive by Years after AIDS Diagnosis: Percent of adult/adolescent reported AIDS diagnoses not reported to have died at 1 year, 2 years, 5 years and 10 years after initial AIDS diagnosis, by year of AIDS diagnosis.

Percent Late HIV Diagnosis: Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 12 months prior to their initial AIDS diagnosis.

Percent Suppressed: Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

Percent with AIDS: Percent of adult/adolescent reported HIV diagnoses in the specified year with an initial AIDS diagnosis by 12/31/2016.

Percent with AIDS by Years after HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses in the specified year with an initial AIDS diagnosis at 1 year, 2 years, 5 years and 10 years after HIV diagnosis.

Population: Population estimate for 7/1/2016.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2016.

Rate: Number of HIV cases divided by the population multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

Reported AIDS Deaths: Reported HIV diagnoses with an AIDS diagnosis, reported to have died of any cause during the specified year.

Reported AIDS Diagnoses: Reported HIV diagnoses with an initial AIDS diagnosis during the specified year.

Reported HIV Diagnoses: Reported HIV diagnoses with an initial HIV diagnosis during the specified year.

Residence at Diagnosis: Jurisdiction of residence at later time of initial HIV diagnosis or initial AIDS diagnosis.

Retained in HIV Care: HIV Diagnosed with a CD4 test result performed in the specified year.

Suppressed Viral Load: HIV Diagnosed with the most recent viral load measured in the specified year of less than 200 copies per milliliter.

Total Living HIV Cases: Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31st of the specified year.

Viral Load With Test: Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.